

Tennessee Technological University

2026-2027 Graduate Catalog

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Message from the President

Dear Student,

Congratulations and welcome to Tennessee Technological University. As a graduate student, we offer you a place to focus on relevant work, to fearlessly pursue answers to problems that have global implications, and to diligently dedicate yourself to creating knowledge.

Universities ultimately exist to create and transfer knowledge and to identify and develop human talent. During your personal experience here, you can expect that we will offer you the tools and environment you need to succeed.

We strive to incorporate the latest technology throughout all disciplines. As our university focuses on the national priorities of science, technology, engineering and mathematics, we strengthen all our programs by infusing technological innovation across campus.

TTU is also staying responsive to the needs of industry and to society. You will work with researchers, scholars and mentors here who maintain relationships with key industrial, government and community leaders.

You have joined the company of an esteemed group – those who have chosen TTU to prepare them for success in their careers and in their life experiences. Our alumni hold positions as Fortune 500 CEOs, NASA astronauts, government leaders, renowned professors, respected researchers and other prestigious leaders.

You will make a positive impact here. Congratulations for choosing to become an important part of Tennessee Tech University.

Sincerely,

Philip B. Oldham

President

Accreditation and Memberships

Tennessee Technological University—A State University

Tennessee Tech University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's, educational specialist, and doctoral degrees. Tennessee Tech University also may offer credentials such as certificates and diplomas at approved degree levels. Questions about the accreditation of Tennessee Tech University may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Accreditation

- AACSB--International - The Association to Advance Collegiate Schools of Business
- AAFCS - American Association of Family and Consumer Sciences
- ABET - Accreditation Board for Engineering and Technology
- ACS - The American Chemical Society
- ACEND - Accreditation Council for Education in Nutrition and Dietetics
- CACREP - Council for the Accreditation of Counseling and Related Educational Programs
- CAEP - Council for the Accreditation of Educator Preparation
- CCNE - Commission on Collegiate Nursing Education

- NASAD - National Association of Schools of Art and Design
- NASM - National Association of Schools of Music

Memberships

- American Association of Colleges of Teacher Education
- American Association of State Colleges and Universities
- Council of Graduate Schools
- Ohio Valley Conference
- Oak Ridge Associated Universities
- Putnam County Chamber of Commerce
- Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)
- Teacher Education Council of State Colleges and Universities
- Tennessee College Association

Notice

The course offerings and requirements of the institution are continually under examination and revision. This catalog presents the offerings and requirements in effect at the time of publication, but is no guarantee that they will not be changed or revoked. However, adequate and reasonable notice will be given to students affected by any changes. This catalog is not intended to state contractual terms and does not constitute a contract between the student and the institution.

The institution reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Current information may be obtained from the following sources:

- Admission Requirements – College of Graduate Studies
- Course Offerings – Department or Division Offering Course
- Degree Requirements – Departmental Chairperson of Major
- Fees and Tuition – Business Office

The University provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the University, are qualified for teaching at the college level. The acquisition and retention of knowledge by any student is, however, contingent upon the student's desire and ability to learn and his or her application of appropriate study techniques to any course or program. Thus, the University must necessarily limit representation of student preparedness in any field of study to that competency demonstrated at that specific point in time at which appropriate academic measurements were taken to certify course or program completion. Any or all students may be required to take one (1) or more tests designed to measure general education achievement and/or achievement in selected major areas as a prerequisite to graduation for the purpose of valuation of academic programs. Unless otherwise provided for any individual program, no minimum score or level of achievement is required for graduation. Participation in testing and other evaluation measures are required for all students and for students in selected programs. In order to comply fully with this provision, the student must authorize the release of his or her scores to the institution. Individual student scores will be treated as confidential.

Tennessee Tech University is an Equal Opportunity/Affirmative Action institution and is in compliance with Titles VI and VII of the Civil Rights Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1974, the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Act of 1974, and the Americans With Disabilities Act of 1990. The University is nondiscriminatory on the basis of age, race, color, religion, sex, national origin, disability status, or status as a disabled veteran or veteran of the Vietnam era. Inquiries or complaints concerning these policies should be directed to the Affirmative Action Officer, Derryberry Hall, Room 146, (931) 372-3034.

Faculty members will endeavor to make necessary accommodations for disabled persons in their courses. The Accessible Education Center is available to assist the faculty to make necessary special arrangements for disabled students. This center should be contacted as early as possible by a student regarding assistance that may be needed for attendance at the University.

2026-2027 Graduate Catalog

June 2026

The Graduate Catalog is only available online and covers the entire academic year. The next publication will take place in June 2027 for 2027-2028.

Search options are available on the left-hand side of the page.



Change of Catalog Content

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If you have questions or comments, please contact Graduate Studies at gradstudies@tntech.edu.

Information Directory

All inquiries and correspondence concerning the following areas should be addressed to:

Graduate Studies	**Financial Aid**
College of Graduate Studies	Office of Financial Aid
Tennessee Tech University	Tennessee Tech University
Box 5012	Box 5076
Cookeville, TN 38505-0001	Cookeville, TN 38505-0001
Phone: (931) 372-3233	Phone: (931) 372-3073 or 1-800-268-0236
Fax: (931) 372-3497	Fax: (931) 372-6309
Email: Gradstudies@tntech.edu	Email: financialaid@tntech.edu

Records and Registration	**International Admissions**
Office of Records and Registration	Office of International Programs
Tennessee Tech University	Tennessee Tech University
Box 5026	Box 5093
Cookeville, TN 38505-0001	Cookeville, TN 38505-0001
Phone: (931)372-3317 or 1-800-268-0242	Phone: (931) 372-3634
Email: records@tntech.edu	Email: Intl_adm@tntech.edu

Academic Offices	
College of Graduate Studies, Office of the Dean	(931) 372-3233
College of Agriculture & Human Ecology	(931) 372-3149
College of Arts & Sciences	(931) 372-3118
College of Business	(931) 372-3372
College of Education and Human Sciences	(931) 372-3124
College of Engineering	(931) 372-3172
College of Emerging and Integrative Studies	(931) 372-3394
Whitson-Hester School of Nursing	(931) 372-3203
Office of International Programs	(931) 372-3634
Provost and Vice-President for Academic Affairs	(931) 372-3224

Directory assistance for other offices is available through the main switchboard at (931) 372-3101. The University's web site address is www.tntech.edu.

Tennessee Tech University was founded in 1915 and is governed by our Board of Trustees. www.tntech.edu/board

TTU /An EEO/AA/Title IX/Section 504/ADA Employer

University History

Tennessee Technological University was established by an act of the General Assembly in 1915 and opened its doors to students the following year. The University began operation on the campus that had belonged to Dixie College, a private institution founded in 1911. The purchase of the Dixie campus property and the erection of two dormitories, East and West Halls, were funded by Putnam County and the City of Cookeville. Since then, the growth of the institution has been closely interwoven with the development of the Upper Cumberland region.

From 1916-24 Tennessee Polytechnic Institute offered work only on a high school and junior college level. By 1929, however, the Tennessee Board of Education authorized a complete college program and the first class of four-year graduates received the B.S. degree in June.

In 1938 the instructional program was reorganized into two main divisions, the Arts and Sciences and the Professional and Technical Subjects. These divisions were renamed schools nine years later. In 1949 the administrative structure was expanded into five schools consisting of Agriculture and Human Ecology, Arts and Sciences, Business Administration, Education, and Engineering. The five undergraduate schools were designated as colleges in 1965 when Tennessee Polytechnic Institute gained university status and changed its name to Tennessee Technological University.*

The Master of Arts degree was authorized in 1958, and the Master of Science degree in 1964. The Specialist in Education degree was authorized in 1970, the Doctor of Philosophy in engineering in 1971, the Master of Business Administration in 1976, the Doctor of Philosophy in Environmental Sciences in 1997, and the Doctor of Philosophy in Exceptional Learning in 2000. The University granted its first 3 Master’s degrees in August 1959.

Since its inception in 1958, the Graduate School has striven to provide the highest quality of graduate programs and to maintain its rich heritage.

Presidents of the University

Thomas Alva Early		**1916 - 1920**
University of Georgia.		
Quentin Miller Smith		**1920 - 1938**
B.S., George Peabody College for Teachers, 1917; M.A., 1927.		
James Millard Smith		**1938 - 1940**
B.S., West Tennessee State Teachers College, 1929; M.A., George Peabody College for Teachers, 1930.		
William Everett Derryberry		**1940 - 1974**
B.A., Summa Cum Laude, The University of Tennessee, 1928; B.A., (Honours) School of English Language and Literature; and M.A., Oxford University, Oxford, England, 1932; D.Litt., University of Chattanooga, 1965; LL.D., Pepperdine College, 1967.		
Arliss Lloyd Roaden		**1974 - 1985**
A. A., Cumberland Junior College, 1949; B.A. Cum Laude, Carson-Newman College, 1951; M.S., The University of Tennessee, 1958; Ed.D., 1961.		
Wallace Samuel Prescott		**1985 - 1987**
B.S., Tennessee Polytechnic Institute, 1946, M.S., The University of Tennessee, 1952; Ph.D., University of Illinois, 1961.		
Angelo Anthony Volpe		**1987 - 2000**
B.S., Brooklyn College, 1959; M.S., University of Maryland, 1962; Ph.D., 1966.		
Robert R. Bell		**2000 - 2012**
B.S., University of Florida, 1969; M.A., 1970; Ph.D., 1972.		
		2012 - present
Philip Oldham		
B.S., Freed-Hardeman University, 1980; Ph.D., Texas A&M University, 1985.		

Statement of Mission

Tennessee's technological university creates, advances, and applies knowledge to expand opportunity and economic competitiveness. As a STEM-infused, comprehensive institution, Tennessee Tech delivers enduring education, impactful research, and collaborative service.

Tennessee Tech Board of Trustees reviewed and approved the mission statement on September 28, 2023.

Tennessee Tech Board of Trustees

The Tennessee Tech Board of Trustees were appointed by the Governor of Tennessee and approved the Tennessee General Assembly.

Current Trustees Include:

Mr. Camron Rudd, Academic and Student Affairs Chair

Dr. Michael Allen

Dr. Teresa Chasteen-Dunn

Mr. Allen Foster

Mr. Garry McNabb

Mr. Tom Jones, Audit and Business Chair

Capt. Barry Wilmore, USN (Retired)

Mr. Thomas Lynn

Ms. Rhedona Rose, Executive Chair

Mr. Fred Lowery

Ms. Trudy Harper

Academic and Administrative Officers

Dr. Philip Oldham, President

Senior Administration

Dr. Mickey Latour, Provost and Vice President for Academic Affairs

John Smith, Interim Vice President of University Advancement

Dr. Claire Stinson, Vice President for Planning and Finance

Dr. Katherine Aikens, Vice President for Student Affairs

Dr. Zhanjiang (John) Liu, Vice President for Research

Karen Lykins, Vice President for Enrollment and Communication

Dr. Julie C. Baker, Associate Provost and Dean of the College of Graduate Studies

Dr. Sharon Huo, Associate Provost

Dr. Bedelia Russell, Associate Provost

Dr. Robert Owens, Senior Executive for Access, Belonging, and Community Outreach

Dr. Terry Saltsman, Chief Government Affairs Officer

Bob Crabtree, Chief Safety Officer

Jennifer Chavez, Chief Information Officer

Casey Fox, Director of Athletics

Kevin Vedder, Associate Vice President of Human Resources

Troy Perdue, University Council

Lee Wray, Chief of Staff and Secretary to the Board of Trustees

Academic Deans

Dr. Darron Smith, Dean of the College of Agriculture and Human Ecology

Dr. Daren Snider, Dean of the College of Arts and Sciences

Dr. Sean Alley, Interim Dean of the College of Business

Dr. Jennifer Shank, Dean of the College of Fine Arts

Dr. Lisa Zagumny, Dean of the College of Education

Dr. Joseph Slater, Dean of the College of Engineering

Dr. Hayden Mattingly, Interim Dean of the College of Interdisciplinary Studies

Dr. Kimberly Hanna, Dean of Whitson-Hestor School of Nursing

Dr. Kelly McCallister, Dean of University Library and Learning Assistance

Administration and Faculty

For the most current listing of Tennessee Tech administrative staff and faculty, visit the TTU home page and click on in the search bar click on “People Finder”. You may search by name or department.

The University Campus

Cookeville, Tennessee, the site of Tennessee Tech University, is located within a day's drive of about 75% of the nation's population via Interstate 40, Highway 70 North, and Highway 111. Cookeville is just 70 miles East of Nashville and 110 miles West of Knoxville, with Chattanooga 100 miles to the South. Major airline services are available through Nashville, Knoxville, and Chattanooga.

The City of Cookeville has a population of more than 26,000 residents and is located on the eastern Highland Rim of Tennessee at an elevation of 1,140 feet. Cookeville is the 'hub' of the 14-county Upper Cumberland region of about 317,000 citizens. The local public schools, civic clubs, and churches have a friendly and cooperative relationship with students, faculty, and patrons. The surrounding area, enhanced by three major lakes, abounds in natural beauty and is served by several state park including Burgess Falls and Cummins Falls state parks. Cookeville is just minutes from top-rated golf courses, lakes, rivers, hiking, championship fishing, hunting, and an amazing variety of sports (including Tennessee Tech University's) and other activities.

The campus consists of a tract of 235 acres made attractive by building architecture, shrubbery, native trees, and a system of driveways and walkways; making travel to and from buildings to parking lots easy and convenient. A current map of the university may be found on the TTU website.

University Policies

Student Responsibility

All students are required to have knowledge of rights, responsibilities, and regulations pertaining to campus life which are published in the *Student Handbook*. Each student is responsible for maintaining communication with the University, by keeping officials informed at all times of current address (including zip code) and telephone number.

Students are responsible for the proper completion of their academic programs; for familiarity with requirements of the University Catalog; for maintaining the grade average required; and for meeting all other degree requirements. A student may receive counsel from an academic advisor; however, the final responsibility remains that of the student.

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The institution reserves the right to make changes as required in course offerings, curricula, academic policies, and other rules and regulations affecting students to be effective whenever determined by the institution. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

The University provides the opportunity for students to increase their knowledge by providing programs of instruction in the various disciplines and programs through faculty who, in the opinion of the University, are qualified for teaching at the college level. The acquisition and retention of knowledge by any student is, however, contingent upon the student's desire and ability to learn and his or her application of appropriate study techniques to any course or program. Thus, the University must necessarily limit representation of student preparedness in any field of study to that competency demonstrated at that specific point in time at which appropriate academic measurements were taken to certify course or program completion.

The regulations and policies established by the Graduate Studies Executive Committee are intended to provide guidance to faculty and students. Should an individual believe that there is sufficient justification for an exception to any requirement, written requests (with any suitable statements or other supporting documents) may be submitted to the Associate Dean of Graduate Studies for consideration by the committee. The committee has regular meetings three times during each semester of the academic year and once during the summer.

The graduate catalog is a supplement to the undergraduate catalog (general catalog) and is published to provide information for graduate students, prospective graduate students, and members of the faculty. Students enrolling for graduate study at Tennessee Technological University are responsible not only to the provisions of the graduate catalog but also to the undergraduate catalog. Whenever a student's welfare or progress may be impeded or impaired by any conflict of information presented in the two (2) publications, resolution of such conflict will be determined by the appropriate standing committees of the University. When a person is admitted to graduate study, it is presumed that person accepts responsibility for learning and observing the regulations and policies of the University; therefore, ignorance of a regulation or policy does not constitute a basis for waiving that regulation or policy. Graduate students are subject to the usual procedures and regulations of the University as listed in the undergraduate catalog, except as they apply to undergraduate students only.

Tennessee Tech University is an Equal Opportunity/Affirmative Action institution and is in compliance with Titles VI and VII of the Civil Rights Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1974, the Rehabilitation Act of 1973, Vietnam Era Veterans Readjustment Act of 1974, and The Americans With Disabilities Act of 1990. The University is nondiscriminatory on the basis of age, race, color, religion, sex, national origin, disability status, or status as a disabled veteran or veteran of the Vietnam Era.

Disability Accommodation

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The ODS is located in the Roaden University Center, Room 112; phone 372-6119. For details, view the Tennessee Tech's Policy 340 – Services for Students with Disabilities at Policy Central.

Official Notice to Report

A notice to report to any administrative office of the University takes precedence over all noninstructional activities, and must be answered immediately or, if received during a class, as soon as the class is over. Failure to respond to such a notice will require satisfactory explanation to the Administrative Council before the student is allowed to continue in residence.

Student Academic Misconduct

Maintaining high standards of academic integrity in every class at Tennessee Tech is critical to the reputation of Tennessee Tech, its students, alumni, and the employers of Tennessee Tech graduates. The Student Academic Misconduct Policy describes the definitions of academic misconduct and policies and procedures for addressing Academic Misconduct at Tennessee Tech. For details, view the Tennessee Tech's Policy 217 – Student Academic Misconduct at Policy Central.

Grade Appeal Procedure

The university grade appeal procedure is outlined in Tennessee Tech Policy 218.

Judiciary Procedures

Judiciary procedures at the University do not constitute legal actions, and the decisions are not to be equated with verdicts reached by courts of law. These procedures simply involve the fact-finding and decision-making processes of an educational institution.

Detailed procedures for the disciplinary system are printed in the 'Disciplinary System Manual." Copies of the manual are located in the Office of Student Affairs.

Unofficial Withdrawal

Tennessee Tech University will, through forms of documentation deemed acceptable by federal guidelines, determine the date of unofficial withdrawal for any student who leaves the University without officially withdrawing. In compliance with federal guidelines this date will be used to calculate the University's financial liability to the federal government in the recovery of funds.

Official Withdrawal From The University

Students who desire to withdraw from the University before the end of an academic term must make formal application for withdrawal either in the Office of Student Affairs at the time of withdrawal. Those who complete withdrawal procedures will receive a grade of W in courses they are passing and a grade of WF in courses they are failing if official withdrawal is after the last date for dropping a course. Refunds which may be due will depend upon the date of formal withdrawal. Applications for withdrawal will not be considered if received after final examinations begin in any term.

Privacy Rights Of Students

On May 20, 1975, Tennessee Tech approved a statement of policy that includes provisions for the release of information about students and the rights of students and others to have access to Tech's education records. The complete policy statement of "Privacy Rights of Students" is available in the Records and Registration Office and in the Student Handbook.

A student may obtain a transcript of his or her academic records by making a written request to the Office of Records and Registration, Tennessee Tech University, P. O. Box 5097, Cookeville, TN 38505, fax (931) 372-6111.

Drug Free Policy

The Tennessee Tech University community (Faculty, Staff, and Students) complies with the policies and penalties relative to controlled substances (illicit drugs) and alcohol, as required by the Drug Free Workplace Act of 1988 and the Drug Free Schools and Communities Act Amendments of 1989. As an employee and/or student at Tennessee Technological University, you are required to be knowledgeable of and comply with the Drug Free Campus/Workplace Policy, the applicable provisions of which are summarized below:

It is the policy of this institution that the unlawful manufacture, distribution, possession, use, or abuse of alcohol and/or illicit drugs on the Tennessee Technological University campus or on property owned or controlled by the University is strictly prohibited. All categories of employees and students are subject to this policy and to applicable federal, state, and local laws related to this matter. Additionally, any violation of this policy will result in disciplinary actions as set forth in the applicable sections of this policy.

No Smoking & Tobacco-Free Campus Policy

Tennessee Tech University (TTU) agrees with the U.S. Surgeon General that tobacco use in any form, active and/or passive, is a significant health hazard. TTU further recognizes that environmental tobacco smoke has been classified as a Class-A carcinogen, and that the State of Tennessee is actively dissuading its employees from smoking. TTU supports the American College Health Association Position Statement on Tobacco on College and University Campuses (www.acha.org, Feb 2005). Due to these health risks, TTU has adopted a NO SMOKING & TOBACCO-FREE CAMPUS policy.

Policy - Effective January 1, 2010, TTU is a No Smoking & Tobacco-Free Campus, with all smoking ('herbal' and tobacco) and all other tobacco usage permitted only in private vehicles. This policy applies to all university buildings and grounds; TTU-affiliated off-campus locations and clinics; and any buildings or properties owned, leased or rented by TTU in all other areas. Smoking and tobacco use continues to be prohibited in all state vehicles. This No Smoking & Tobacco-free Campus Policy is in effect 24 hours a day year-round.

Background - The University promotes a healthy, sanitary environment free from all smoke ('herbal' and tobacco) and tobacco-related debris. The TTU community acknowledges that long-term health hazards may accrue to people who use tobacco products or who are subjected to second-hand smoke. The failure to address the use of tobacco products on campus would constitute a violation of the Americans with Disabilities Act, the Vocational Rehabilitation Act and Tennessee law.

Support - Understanding the addictive nature of tobacco products, TTU will make every effort to assist those who may wish to stop using tobacco. TTU Human Resources, Health Services and Counseling Center offer current information about available resources. The State offers toll-free assistance at 1-800-QuitNow (1-800-784-8669). The American Cancer Society offers free counsel to individuals wanting to quit.

Compliance and Enforcement - It is the responsibility of all members of the TTU community and visitors to comply with this no smoking and tobacco-free campus policy. Violations of the policy will be dealt with in a manner that is consistent with university procedures. There shall be no reprisals against anyone reporting violations of this policy.

Inclement Weather Policy

Tennessee Tech Policy 420, Emergency Notifications, contains the most current emergency notification dissemination procedures including those regarding inclement weather.

All Tennessee Tech University offices will remain in operation during inclement weather to ensure continuity of services and to meet the needs of our students. In extreme weather conditions, classes and exams on campus and at off-campus locations may be rescheduled or cancelled while the university is open.

In accordance with TTU policy, faculty, administrators and staff of TTU are expected to make every reasonable effort to be at their work assignment on time, taking into consideration the personal risk involved. Administrators or staff employees who anticipate arriving late, or not arriving at work at all, should notify their immediate supervisor of this fact as soon as possible and request annual leave for the period of absence. If faculty members must be absent from assigned classes due to inclement weather, it is their responsibility to notify the appropriate chairperson and/or dean.

Off-Campus Classes

The decision to cancel off-campus classes will be made by the Vice President for Academic Affairs in close consultation with the Vice President of Extended Programs and Regional Development and the coordinators of the off-campus centers. The information will then be disseminated by the coordinators as quickly as possible by whatever means are available in the vicinity of the affected center.

For Employees / Working Hours

At times it may be necessary for the President to declare specific hours as emergency closing as the result of inclement weather or other emergency situations. In such cases, regular full-time and part-time employees on the active payroll who are scheduled to work during the declared times of closing will be granted time off from work with pay. Employees who are not scheduled to work will not be paid for the emergency closing. Clerical and support personnel required to work to keep essential services functioning will receive extra compensation. Administrative personnel required to work will receive equal time off for hours worked.

Academic Work

If classes are canceled due to inclement weather, missed classes should be made up in a manner chosen by the individual faculty member involved. If classes are not cancelled despite inclement weather, students are responsible for any academic work they miss as a result of inclement weather. It is the individual student's responsibility to take the initiative in making up any missed work, including but not limited to examinations, presentations and projects, and it is the faculty member's responsibility to provide the student with a reasonable opportunity to make up missed work, including but not limited to examinations, presentations and projects.

Delays & Early Closings

The President of the University may choose a delayed opening or early closing.

In the event of the delayed opening, all faculty and staff are expected to report to their specific work location by the set opening time. Students are expected to report to regularly scheduled class only if there are 30 or more minutes remaining in the session. (Ex.: If the delayed opening is set for 10:00 a.m., students who have classes from 9:30 a.m. to 10:50 a.m. should report to that class at 10:00 a.m.). All classes scheduled prior to the delayed opening time and those that have less than 30 minutes remaining after the set opening time are cancelled for the day.

When time is announced for an early closing, it applies to all classes that begin on or after that hour. Ex. "Classes cancelled at 3 p.m." means all classes starting at 3 p.m. or later are cancelled. Classes that started before 3 p.m. will meet.

Procedures for Canceling Classes

In those instances when weather conditions require a decision by the President of the University to authorize canceling classes, delaying the start of classes or suspending selected activities, the following procedures will be in effect:

The Director of Facilities and Business Services and Director of Safety and Environmental Services will monitor official weather reports, contact appropriate state, county and local Public Safety Officials and check local roads for hazardous driving conditions. They will review campus roads, walkways and parking lot conditions. The Director of Facilities and Business Services will advise the Vice President for Business and Fiscal Affairs of the findings. After receiving this information, the Vice President for Business and Fiscal Affairs will inform the Vice President for Academic Affairs, who will consult with the other vice presidents and recommend to the President whether the University should cancel classes or declare an emergency closing. If the Vice President for Business and Fiscal Affairs is unavailable, the Director of Facilities and Business Services and Director of Safety and Environmental Services will contact the Vice President for Academic Affairs.

Once the decision is made to cancel classes or close offices and facilities or buildings on campus or at extended education sites, the President or Vice President for Academic Affairs will notify:

- Associate Vice President for Communications and Marketing (or representative of that office)
- University Police
- University Vice Presidents (Each University Vice President will be responsible for notifying the appropriate personnel in the division).

When the university makes the decision to delay or cancel classes, announcements are shared on Tech's Facebook page, X (formerly Twitter) account, Instagram story, and the homepage of the Tech website. Media in Cookeville, Nashville, Knoxville and Chattanooga are alerted. In addition, the university also sends an -email to campus and a text message alert to all TTU Alert subscribers.

Many media outlets require private passwords or codes for weather notifications. These codes will be kept confidential and maintained annually by the Office of Communications and Marketing. Access to a listing of codes will be limited to designated OCM staff members and the Vice President for University Advancement.

No notice will be sent to media if the University continues to operate on a normal schedule. (The University homepage and social media may be used to communicate to students, parents, faculty, staff and administrators that a normal schedule will be followed).

Graduate Student Calendar

Fall 2026

- Monday, April 6: Summer/Fall 2026 Registration Begins
- Friday, May 1: Last Day for International Applicants to Apply for Fall 2026 Admission
- **Monday, June 1: Last Day to Apply for Fall 2026 Graduation**
- Saturday, August 1: Last Day for Domestic Applicants to Apply for Fall 2026 Admission
- Saturday, August 1: Last Day to Apply for Readmission for Fall 2026
- Monday, August 17: New Graduate Student Orientation (4 pm)
- Wednesday, August 19: Enrollment Confirmation Deadline
- Thursday, August 20: Classes Begin
- Friday, August 21: Late Registration Begins ($100 late fee)
- **Tuesday, September 1: Last Day to Apply for Spring 2027 Graduation**
- Monday, September 7: Labor Day Holiday (No Classes, Offices Closed)
- TBA: Thesis & Dissertation Information Session
- Thursday–Friday, October 15–16: Fall Break (No Classes, Offices Open)
- Wednesday, October 21: Fast Track Information Session (11:00 am Centennial Plaza)
- Thursday, October 22: Fast Track Information Session (1:00 am Centennial Plaza)

- Tuesday, November 10: Graduate Studies Information Session (1:00 pm)
- **Friday, November 6: Last Day to Submit Forms (e.g., substitutions, committee or candidacy forms, transfers, validation forms, exception requests, reclassification to full standing, or other requested documents, etc.) required for graduation (if applicable)**
- Monday, November 2: Registration for Spring 2027 Begins
- Tuesday, November 3: Civic Engagement Day (No Classes, Offices Open)
- **Friday, November 13: Last Day to Submit Exception Request to Walk in Commencement**
- **Friday, November 13: Last Day to Report Results of Comprehensive Exam**
- **Friday, November 13: Last Day to Report Results of Thesis/Dissertation Defense**
- **Friday, November 20: Last Day to Submit Signed Thesis/Dissertation Certificate of Approval**
- **Friday, November 20: Last Day to Submit Committee-Approved Thesis/Dissertation into ProQuest**
- Wednesday–Friday, November 25–27: Thanksgiving Holiday (No Classes 25–27, Offices Closed 26–27)
- Friday, December 4: Last Day of Classes
- **Friday, December 4: Last Day to Submit Final Thesis/Dissertation Revisions**
- **Friday, December 4: Last Day to Submit Survey of Earned Doctorate (Ph.D. Students)**
- **Friday, December 4: Last Day to Remove "Incomplete" Grades if Graduating in December**
- Friday, December 4: INSL Praxis (official passing score)
- Monday–Thursday, December 7–10: Final Exam Week
- **Friday, December 11: Graduation & Commencement — Commencement Details »**
- Monday, December 14: Grades Due (10:00 am)
- Thursday, December 24–Friday, January 1: Holiday Break (Offices Closed)

Spring 2027

- **Monday, September 1: Last Day to Apply for Spring 2027 Graduation**
- Thursday, October 1: Last Day for International Applicants to Apply for Spring 2027 Admission
- Monday–Friday, October 26–30: Spring 2027 Advisement Week (current students)
- Monday, November 2: Spring 2027 Registration Begins
- Tuesday, December 1: Last Day for Domestic Applicants to Apply for Spring 2027 Admission
- Tuesday, December 1: Last Day to Apply for Readmission for Spring 2027
- Thursday–Friday, January 7–8: Advisement and Registration for Spring 2027 (new and readmitted students)
- Wednesday, January 13: Enrollment Confirmation Deadline
- Thursday, January 14: Classes Begin
- Friday, January 15: Late Registration Begins ($100 late fee)
- Monday, January 18: Martin Luther King Day Holiday (No Classes, Offices Closed)
- Wednesday, January 27: Last Day to Add or Drop with No Grade
- **Monday, February 1: Last Day to Apply for Summer 2027 Graduation**
- TBA: Thesis & Dissertation Information Session
- Monday–Friday: March 15-19: Spring Break (No Classes, Offices Open)
- Tuesday, March 23: Fast Track Information Session (11:00 am Centennial Plaza)
- Wednesday, March 24: Fast Track Information Session (1:00 pm Centennial Plaza)
- Thursday, March 25: No Classes, Offices Open
- Friday, March 26: Good Friday Holiday (No Classes, Offices Closed)
- Monday, March 29: Last Day to Drop with a “W”
- Monday–Friday, March 29–April 2: Advisement for Summer/Fall 2027
- Monday, April 5: Registration for Summer/Fall 2027 Begins
- Monday–Friday, April 5-9: Graduate Student Appreciation Week (multiple events)
- **Friday, April 9: Last Day to Submit Forms (e.g., substitutions, committee or candidacy forms, transfers, validation forms, exception requests, reclassification to full standing, or other requested documents, etc.) required for graduation (if applicable)**
- Tuesday, April 14: Graduate Studies Information Session (11 am Tech Pride Room, RUC)
- **Friday, April 16: Last Day to Submit Exception Request to Walk in Commencement**
- **Friday, April 16: Last Day to Report Results of Comprehensive Exam**
- **Friday, April 16: Last Day to Report Results of Thesis/Dissertation Defense**
- **Friday, April 23: Last Day to Submit Signed Thesis/Dissertation Certificate of Approval**
- **Friday, April 23: Last Day to Submit Committee-Approved Thesis/Dissertation into ProQuest**
- **Friday, April 30: Last Day to Submit Final Thesis/Dissertation Revisions**

- **Friday, April 30: Last Day to Submit Survey of Earned Doctorate (Ph.D. Students)**
- **Friday, April 30: Last Day to Remove "Incomplete" Grades if Graduating in May**
- Friday, April 30: Last Day of Classes
- Friday, April 30: INSL Praxis (official passing score)
- Monday–Thursday, May 3-6: Final Exam Week
- **Friday, May 7: Graduation — Commencement Details »**
- Monday, May 10: Grades Due (10:00 am)

Summer 2027

- **Sunday, February 1: Last Day to Apply for Summer 2026 Graduation**
- Sunday, February 1: Last Day for International Applicants to Apply for Summer 2027 Admission
- Monday, April 6: Summer/Fall 2027 Registration Begins
- Friday, May 1: Last Day for Domestic Applicants to Apply for Summer 2027 Admission
- Friday, May 1: Last Day to Apply for Readmission for Summer 2027
- Monday, May 10: Intersession Classes Begin
- Friday, May 21: Intersession Classes End
- Monday, May 24: Summer 1 and Full-Term Classes Begin
- Wednesday, May 26: Summer 1 Last Day to Add
- Sunday, May 30: Summer 1 Last Day to Drop with No Grade
- Monday, May 31: Memorial Day (No Classes, Offices Closed)
- **Tuesday, June 1: Last Day to Apply for Fall 2027 Graduation**
- Monday, June 7: Full Term Last Day to Drop with No Grade
- Wednesday, June 16: Summer 1 Last Day to Drop with a “W”
- Friday, June 18: Juneteenth Observed (No Classes, Offices Closed)
- Wednesday, June 23: Summer 1 Last Day of Classes
- Thursday, June 24: Summer 1 Study Day (No Classes Full-Term Summer)
- Friday, June 25: Summer 1 Finals (No Classes Full-Term Summer)
- Monday, June 28: Summer 2 Classes Begin (Full-Term Summer Resumes)
- Wednesday, June 30: Summer 2 Last Day to Add
- **Friday, July 2: Last day to submit degree progression documentation required for graduation (e.g., substitution forms, committee or candidacy forms, transfer forms, course validation forms, exception requests, reclassification to full standing forms, other requested documents, etc.)**
- Monday 5: Independence Day Observed (No Classes, Offices Closed)
- Friday, July 9: Full Term Last Day to Drop with a “W”
- **Friday, July 9: Last Day to Report Results of Comprehensive Exam**
- **Friday, July 9: Last Day to Report Results of Thesis/Dissertation Defense**
- Sunday, July 11: Summer 2 Last Day to Drop with No Grade
- **Friday, July 16: Last Day to Submit Signed Thesis/Dissertation Certificate of Approval**
- **Friday, July 16: Last Day to Submit Committee-Approved Thesis/Dissertation into ProQuest**
- Tuesday, July 20: Summer 2 Last Day to Drop with “W”
- **Friday, July 23: Last Day to Submit Final Thesis/Dissertation Revisions**
- **Friday, July 23: Last Day to Submit Survey of Earned Doctorate (Ph.D. Students)**
- **Friday, July 23: Last Day to Remove "Incomplete" Grades if Graduating**
- Tuesday, July 27: Summer 2 & Full-Term Summer Last Day of Classes
- Tuesday, July 27: INSL Praxis (official passing score)
- Wednesday, July 28: Summer 2 & Full-Term Summer Study Day
- Thursday–Friday, July 39–30: Summer 2 & Full-Term Summer Finals
- Friday, July 30: Summer 2027 Graduation Date (no summer commencement)
- Monday, August 2: Summer 2027 Grades Due (10:00 am)

Mission and Vision

Tennessee Tech will achieve national prominence and impact through its engaged students, dedicated faculty, and career-ready graduates known for their creativity, tenacity, and analytical approach to problem solving.

Mission of the College of Graduate Studies

The mission of the College of Graduate Studies is to promote, coordinate, enhance the quality of, and serve as an advocate for graduate education programs at Tennessee Tech University, which supports both the mission and flight plan of the university.

Vision of the College of Graduate Studies

The vision of the College of Graduate Studies is to improve human knowledge through teaching, learning, research and outreach.

The College of Graduate Studies reports to the Provost's Office and is responsible for promoting, coordinating, enhancing the quality of, and serving as the advocate for graduate education programs at Tennessee Techn University. Our goals are to enhance the intellectual community of scholars among graduate students and faculty; provide quality control of all graduate education programs; promote academic excellence of all graduate programs; and support and facilitate research and scholarly activities. The policies that govern the college are developed by the Graduate Studies Executive Committee which includes faculty members, administrators and student members.

Graduate Studies Executive Committee

Policies that govern the organization and administration of the College of Graduate Studies are developed by the Graduate Studies Executive Committee. As authorized by the Administrative Council of the University, the membership of this committee includes a minimum of nine (9) faculty members, representing the six (6) colleges in which graduate programs are offered; a minimum of eight (8) administrators, to include representation from each of the six (6) colleges; a minimum of four (4) student members, also representing the six (6) colleges; and such nonvoting advisory members as may be determined by the President of the University. The Dean of the College of Graduate Studies serves as executive officer. All appointments are made by the President. The chairperson of the committee is elected annually.

The Dean of the College of Graduate Studies, in collaboration with the Executive Committee, exercises overall review and supervision of graduate programs and provides leadership in developing new programs and in improving standards for existing programs.

Graduate Faculty

Appointment and Qualifications of Graduate Faculty

An instructor of any course for which students receive graduate credit must be a member of the Graduate Faculty.

There are four types of membership as defined below.

Status	Minimum Eligibility Criteria	Responsibilities	Term *
FULL	Full-time faculty member, emeritus, or academic administrator holding faculty rank of assistant professor or higher, who holds an earned doctorate or equivalent terminal degree in an appropriate discipline from an appropriately accredited institution and who also has achieved and maintained an appropriate level of scholarship or creative activity and erudition characterized by peer reviewed publications, recitals, exhibitions, and/or externally funded research grants. Individuals with Joint Faculty Appointments (non-employee contractors) may be full members of the Graduate Faculty while on their appointment, if they meet the above requirements.	May serve as a graduate student's academic advisor and chair of the advisory committee for master's, specialist, or doctoral degrees.	6 Years
ASSOCIATE	Full-time faculty member not eligible for full membership who holds an earned doctorate or equivalent terminal degree in an appropriate discipline from an appropriately accredited institution. An Associate Member may have (and not limited to) the title of Instructor, Lecturer, or Post-doc.	May serve as a graduate student's academic advisor and chair of the advisory committee for master's or specialist degrees.	3 Years
AFFILIATE	Part-time faculty member or non-university professional responsible for graduate teaching, advisement, committee service, or research who holds an earned doctorate of equivalent terminal degree in an appropriate discipline from an appropriately accredited institution. No more than one non-university professional may serve as a voting member on a student's committee.	May serve on the graduate student's committee	3 Years
CLINICAL	Full or part-time faculty member who participates in directing educational experiences in a clinical/professional setting where the faculty member practices, who holds at least a master's degree and professional certification in an appropriate discipline from an appropriately accredited institution/agency/association and relevant experience in the field of study.	May only teach clinical or practicum designated courses.	3 Years

Requirements and Responsibilities of the Graduate Faculty

Each member is responsible for ensuring that students in graduate classes have sufficient background prerequisites required for the course.

An approved member of the Graduate Faculty may be asked to serve as an instructor of a graduate course, as an instructor of a readings or special problems course, as a director of some phase of development of the research facilities of Tennessee Tech, as a member of the Graduate Studies Executive Committee, and/or as a member of a graduate student's advisory committee, including serving as the student's academic and/or Research Advisor.

The Graduate Faculty member who serves as the student's advisor will typically chair or co-chair the advisory committee and shall hold faculty rank in the department in which the student is majoring or in an appropriate discipline. For a doctoral student, the advisor will be an experienced faculty member and a Full Member of the Graduate Faculty.

A faculty member may not direct independent study/research courses taken by a student who is a relative of the faculty member and may not be a member of a relative's graduate advisory committee. For the purposes of this policy, "relative" means a parent, foster parent, parent-in-law, child, spouse, brother, foster brother, sister, foster sister, grandparent, grandchild, son-in-law, brother-in-law, daughter-in-law, sister-in-law, or other family member, as defined in TTU Policy 685, who resides in the same household.

Responsibilities of Department Chairperson

The chairperson of any department offering a graduate degree may act in any capacity open to a Graduate Faculty member and has certain administrative responsibilities pertaining to the graduate program.

The department chairperson provides direction and coordination in supporting departmental faculty members in the development of research projects and in the appropriate utilization of facilities.

The department chairperson nominates the faculty member by completing the Graduate Faculty membership application form. Once complete, the application is approved and signed by the college dean and Dean of the College of Graduate Studies. The Dean of the College of Graduate Studies forwards the signed application to the Provost for final review and approval.

Special Considerations of Membership

Faculty members who leave the university may continue to serve in their prior role as chair, co-chair, advisor, or member of the student's committee for one year beyond their departure at the discretion of the department without Graduate Studies exception. Service beyond one year must be approved by the degree-granting college and the College of Graduate Studies.

It is also possible for a member of the Graduate Faulty to have his/her graduate faculty status revoked by the dean of their college or school, or, the Dean of the College of Graduate Studies, outside the periodic review process. Revocation may occur for egregious acts or when a Graduate Faculty member fails to fulfill the responsibilities of a member of the Graduate Faculty to teach graduate student(s) effectively, in a civil, professionally appropriate manner;

to do scholarly research and creative work of high quality or remain active in the practice of the profession; to adhere to university policies related to graduate programs; and to direct the research/professional development of graduate student(s) such that they progress toward graduation in a timely manner appropriate to the field.

If Graduate Faculty status is revoked, the faculty member has the right to make an appeal against the decision to the GSEC. This appeal must be made in writing within 14 days of the revocation.

Graduate Student Advisory Committee Responsibilities

Graduate student advisory committee responsibilities are defined in TTU Policy 271 and include, but are not limited to, the following.

The chairperson of an advisory committee assists the student in the selection of a program of study and in the selection of a suitable thesis or dissertation topic. The chairperson is expected to support and advocate for the student throughout the program.

All advisory committee members shall consider the graduate student's application for admission to candidacy, including a review of both the proposed program of study and the research proposal, and, with other members of the advisory committee, will approve, make recommendations to improve, or disapprove.

All advisory committee members shall participate in the administration of the comprehensive exam to ensure that the student has satisfactory knowledge of the subject matter covered in the program of study.

Graduate Assistants

Appointment of Graduate Assistants

There are four (4) classifications of graduate assistantships:

1. Graduate Teaching Assistant (GTA)
2. Graduate Teaching Associate (GSTA)
3. Graduate Support Assistant (GSA)
4. Graduate Research Assistant (GRA)

Appointments are made upon unit recommendation of the department in which the assistantship is available, provided the recommendation is appropriately endorsed by the Dean of the College and the Dean of the College of Graduate Studies. Unless other arrangements are specified, it is assumed the graduate assistant will pursue a degree objective in the department where the assistantship assignment is made. Applications for assistantships are found on the Graduate College website.

Graduate Assistantship awards are available for qualifying graduate students. Consideration is given on the basis of academic preparation, major area of study, and the availability of funds. Additional information may be found on the Graduate College website.

A graduate student must be admitted to full standing in a Tennessee Tech graduate program to be eligible to apply for a graduate assistantship. The period of appointment is normally for one (1) academic year at a stipend determined by the department in which the assistantship is available.

The graduate assistant must maintain a cumulative 3.0 GPA. If the Graduate Assistant's cumulative GPA falls below the required 3.0 GPA, but not less than 2.0 GPA, the Appointing Authority may authorize continuation under probationary status for one semester.

Overview of Duties of Graduate Assistants

Graduate Assistantships are an option for graduate student funding for higher education and are a form of graduate student employment, providing a compensation package that includes both a monthly stipend and a waiver for tuition and fees. The assistantship allows students to perform research, teaching or other support services for the University as part of their academic professional training and development. Assistantship students will be appointed as a Research Assistant (GRA), Teaching Assistant (GTA), Graduate Teaching Associate (GTS), or Graduate Support Assistant (GSA) with a maximum of 20 hours per week of assigned duties. The majority faculty advisor (or other assigned departmental faculty) determines the duties of the appointment. No vacation or sick benefits are applicable, but there will be no change in monthly stipend amounts and no Graduate Assistantship services required for any University holidays that the University is closed. Arrangements for any variation

in work hours, including time off for vacation, holidays, or illness, should be made individually with the major advisor (or other assigned faculty). Graduate assistants receiving teaching, research, or support assignments are expected to devote sufficient hours per week as may be required to perform all duties necessary to satisfactorily complete all degree requirements.

An international graduate student, who is on an F-1 or J-1 visa, may work no more than 20 hours per week while school is in session. On-campus employment may not exceed 29 hours per week during the summer for eligible international students who plan to register for the following semester if approval is granted by their major advisor, department chair, college dean, International Education, and the Dean of the College of Graduate Studies. Under federal regulations, volunteering by an international graduate student for teaching, research, or other support activity is regarded as employment that must be compensated at a fair wage.

Each academic college and/or department may have requirements in addition to the University. Graduate students are required to become knowledgeable of college and/or departmental policies concerning Graduate Assistantships.

TYPES OF ASSISTANTSHIPS

A graduate student may hold an assistantship in one of the following categories:

1. Graduate Teaching Assistant (GTA)

Graduate Teaching Assistants work under the the direct supervision of a Tennessee Tech faculty member performing one or more of the following responsibilities:

- Assist in teaching classroom sections of a course,
- Assist in teaching laboratory or discussion sections of a course,
- Tutor or provide other special assistance to Tennessee Tech students,
- Assist a faculty member in preparing lectures, grading, advising, and other duties necessary to conduct a course, or
- Assist directly or indirectly in instruction or supervision of Tennessee Tech students in community programs, internships, or seminars for practicing professionals.

2. Graduate Teaching Associate (GSTA)

A GSTA may have the same type of responsibilities as a GTA, but will have the responsibility of teaching an undergraduate course and be listed as a primary instructor of record for undergraduate courses only.

The Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) specifies that a GSTA who has primary responsibility for teaching a course for credit and/or assigning final grades for such a course shall:

- Have earned at least 18 graduate credit hours in his/her teaching discipline,
- Be under the direct supervision of a Tennessee Tech faculty member experienced in the teaching discipline,
- Receive regular in-service training, and
- Be regularly evaluated by the GSTA's direct supervisor.

To ensure that the Graduate Student Teaching Associate posses the required qualification and meets the SACSCOC requirements for teaching, the department shall complete the Graduate Student Teaching Associate Certification form (GSTAC) as part of the hiring process.

3. Graduate Support Assistant (GSA)

Graduate Support Assistants are appointed to perform various types of duties other than those related directly to teaching or research, such as supervisory or administrative functions, by the Appointing Authority.

4. Graduate Research Assistant (GRA)

A Graduate Research Assistant has varying duties according to the specific research project to which the graduate student is assigned by the Appointing Authority. The duties of a GRA are limited to research activities.

Requirements for Eligibility and Maintaining an Appointment

1. A graduate student must be admitted to full standing in a Tennessee Tech graduate program to be eligible to apply for a graduate assistantship.
2. A graduate student seeking a graduate assistantship must complete the Graduate Assistantship application and file a copy with each department in which the graduate student is seeking a graduate assistantship.
3. No Tennessee Tech employee can make a graduate assistantship offer in writing or verbally unless s/he has explicit authority to make such offers.
4. The Appointing Authority should send a copy of all international student graduate assistantship offer letters to the TTU International Education office.
5. Graduate students who are in a co-op program are not eligible for a Graduate Assistantship.
6. A Graduate Assistant will perform all graduate assistantship duties at the Tennessee Tech campus or at a Tennessee Tech approved off-campus facility under the direct guidance of his/her assigned supervisor or Appointing Authority.

Graduate Assistant GPA Requirements

A Graduate Assistant must maintain a cumulative 3.0 GPA. If a Graduate Assistant's cumulative GPA falls below the required 3.0 GPA, but not less than 2.0 GPA, the Appointing Authority may authorize continuation under probationary status for one semester.

Permissible Loads of Graduate Assistants

Registration requirements for Graduate Assistants to receive and maintain full-time graduate student status, is as follows:

1. For the summer semester, a Graduate Assistant must register for a minimum of one (1) graduate credit hour but not more than 12 graduate credit hours.
2. For the fall and spring semesters, a Graduate Assistant must register for a minimum of six (6) graduate credit hours but not more than 12 graduate credit hours.

Competency in English

Tennessee Tech University requires all who teach to be proficient, as determined by Tennessee Tech, in oral and written English.

Stipends, Tuition and Fees

1. Each Appointing Authority will establish the minimum stipend amount for its Graduate Assistants.
2. Graduate Assistants may be offered a full assistantship (100%) that requires the student to work 20 hours per week during a semester, academic year, or full year or half assistantship (50%) that requires the student to work 10 hours per week during the semester, academic year or full year.
3. Graduate Assistants shall receive in-state tuition rates during the assistantship appointment.
4. The Appointing Authority will pay, on a pro rata basis, tuition, maintenance fees, and debt service fees, based upon the Graduate Assistant's assistantship classification as full-time (100%) or one-half time (50%) assistantship. The Graduate Assistant is responsible for all other fees assessed.
5. Each Appointing Authority will pay tuition and fees in accordance with TTU Business and Fiscal Affairs policies and procedures.
6. Courses listed on the graduate student's program of study will be covered by the graduate assistantship unless otherwise approved by the Appointing Authority.
7. Unless a Graduate Assistant receives prior approval from the Appointing Authority, course repetitions and course withdrawals will not be covered by the graduate assistantship.
8. Graduate Assistants must notify the Appointing Authority of all course withdrawals.
9. The Appointing Authority should review the stipend at least every four years to ensure the stipend is competitive to stipends paid by other universities.

Termination/Resignation/Cancellation of Graduate Assistantships

Absent good cause, if a Graduate Assistant fails to meet the requirements in the offer letter, the Appointing Authority will terminate the assistantship.

All graduate assistantships terminate immediately if the Graduate Assistant is dismissed for academic reasons.

If a Graduate Assistant decides to resign from his/her assistantship before expiration of the assistantship, the Graduate Assistant should notify the Appointing Authority in writing two (2) weeks before the date of resignation and should complete an exit interview with the Appointing Authority.

If the Appointing Authority determines that the Graduate Assistant has completed his/her degree program and all research requirements mid-semester, the Appointing Authority may cancel the stipend for the Graduate Assistantship or continue it until the end of the semester.

If Tennessee Tech terminates the graduate assistantship or the Graduate Assistant resigns, forfeits, or withdraws from Tennessee Tech during a semester:

- The Graduate Assistant may be responsible for paying his/her academic tuition fees on a pro rata basis for the remainder of the term.
- The Graduate Assistant's financial responsibility will be based on the number of days left in the semester at the time the assistantship ends and reclassification of residency in accordance with TTU Policy 253 (Residency Classification).
- Should a Graduate Assistant believe there is sufficient justification for an exception to the tuition fee balance owed by the Graduate Assistant, s/he must submit the Request for Exception to University Requirement form to the Tennessee Tech Bursar's office for review and final disposition.

Application Procedures

Applications for admission to the College of Graduate Studies must be submitted by the due dates defined on the college website (International students must submit applications at least six (6) months in advance.) Applications for readmission should be filed not later than 2 weeks before the first day of registration. All applicants for admission into the following programs must submit satisfactory official scores on the required admission test.

College Test	
College of Agriculture and Human Ecology	no test required
College of Arts and Sciences	GRE® General Test (GRE)
College of Business	no test required
College of Education and Human Sciences, Mater's & Ed.S.	no test required
College of Education and Human Sciences, Ph.D., Exceptional Learning only	GRE® General Test (GRE)
College of Emerging and Integrative Studies	no test required
College of Engineering	GRE® General Test (GRE)
School of Nursing	Successful completion of the NCLEX-RN licensing examination (to be verified by the School of Nursing)
All International Students	Test of English as a Foreign Language (TOEFL) *or* International English Language Testing System (IELTS) *or* Pearson Test of English (PTE-A) *or* Duolingo English Test and the appropriate test as required by colleges

Each application must be supported by official transcripts of undergraduate and graduate credit from an accredited institution (for a list of accrediting agencies recognized, refer to the U.S. Department of Education website) and letters of recommendations if required by the major department from persons acquainted with the applicant's scholastic and professional accomplishments. If admission is granted pending receipt of application credentials, the student must submit the required items before the end of the first semester during which the student is enrolled. Within the limits of academic reason, either the departmental chairperson or the Associate Dean of the College of Graduate Studies may require additional information and verification of credentials submitted in support of an application for admission.

The requirement of minimum test scores either for admission, readmission, or candidacy is determined by individual departments or divisions, subject to approval by the respective college-level committees, college dean, and the Graduate StudiesExecutive Committee.

All application materials become the property of the University and will not be returned to the applicant regardless of whether admission is approved or denied.

It is a Class A misdemeanor to misrepresent academic credentials. A person commits the offense of misrepresentation of academic credentials who, knowing that the statement is false and with the intent to secure employment at or admission to an institution of higher education in Tennessee, represents, orally or in writing that such person:

1. Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas from an accredited institution of higher education;
2. Has successfully completed the required course work for and has been awarded one (1) or more degrees for diplomas from a particular institution of higher education; or
3. Has successfully completed the required course work for and has been awarded one (1) or more degrees or diplomas in a particular field or specialty from an accredited institution of higher education.

Special Admissions

Admission of Tennessee Tech Faculty and Employees to Graduate Programs

In addition to meeting the usual requirements for admission to the graduate degree program, an employee's supervisor, the Dean of the College of Graduate Studies, and the Provost must approve the request.

Admission of Seniors to Graduate Courses

A senior student within 18 hours of completing the requirements for the Bachelor's Degree may take up to 9 hours of graduate credit (5000 and 6000 levels) provided:

1. The student's record gives indication that the student could achieve Full Standing (3.0 GPA) at the conclusion of the undergraduate program and

2. The student's departmental advisor, graduate course instructor(s), chairperson of the department(s), and Associate Dean of the College of Graduate Studies approve the student's request.

3. A senior student within 18 hours who does not meet the Full Standing criteria may take up to 9 hours of 5000 level courses. Credit earned in this manner may be used for either undergraduate or graduate credit but not both.

Admission of Transfer Students

An applicant for admission who has begun a graduate program at another college or university may be considered for admission to the College of Graduate Studies on a transfer basis consistent with Tennessee Tech Policy 283 General Graduate Transfer Credit Requirements.

A transfer applicant must be in good standing at the institution previously attended. The coursework transferred or accepted for credit toward a graduate degree must have a minimum grade of "B" in each course. Tennessee Tech will exclude grades earned in transferred courses in the calculation of grade point averages.

For all graduate degree programs, the department will determine, in its sole discretion, the number of Transfer Credits it will accept, provided the department's decision is in compliance with SACSCOC Accreditation Principle 9.5 (at least one-third of the credit hours required for a graduate degree or a post-baccalaureate professional degree are earned through instruction offered by the degree granting institution) and any other applicable accreditation requirements.

Admission of Non-degree Graduate Students

Admission to some graduate courses is available to persons who do not seek a graduate degree. Each applicant must submit to the College of Graduate Studies an application, application fee (if applicable), and proof of having earned the bachelor's degree.

Admission is approved by individual departments, divisions, or their representatives. International students on an F1 visa are not eligible for admission as non-degree students.

Admission Classifications

The major department or division and College of Graduate Studies will classify applicants as Full, Provisional, or Special Standing.

Full Standing

This category indicates that the student has an adequate background for pursuing graduate work and that all minimum requirements for admission to graduate standing have been met.

Provisional Standing

This category indicates that the student does not qualify for full standing due to deficiencies in meeting specific program requirements. "Provisional Standing" is not equivalent to "conditional" admission for the purpose of international student enrollment.

The College of Graduate Studies will change a student's Provisional Standing to Full Standing when the deficiencies identified at the time of admission are removed, provided, at the sole discretion of the department and college: the deficiencies are cured prior to the completion of 15 graduate hours; or after acceptable completion of 9 graduate hours if the sole deficiency is caused by an unacceptable admission exam. A student's failure to remove the deficiencies by the deadline established by Tennessee Tech will result in a registration hold being placed on future registrations until such time as the deficiencies have been removed.

Special Standing

This category denotes that the student has declared a non-degree graduate objective. Students who declare a non-degree graduate objective or transient students who have been admitted to graduate schools of other institutions are assigned to Special Standing.

Admission to the Graduate School in any of the categories described above does not imply acceptance to candidacy for a graduate degree. The requirements for candidacy are explained elsewhere in this publication.

Individuals who wish to enroll in graduate level courses and who do not wish to seek graduate degrees (non-degree graduate students under the category of Special Standing), must submit an application, application fee, and proof of having earned the baccalaureate degree. Students admitted under this category of Special Standing must submit official transcripts of degree conferral's no later than the end of the first semester of enrollment or will be denied registration in subsequent semesters.

Change of Classification

Students who have been admitted to graduate study with Provisional Standing may, upon the approval of the departmental chairperson (or Program Director for students in the Ph.D. programs) and the Associate Dean of Graduate Studies, request and be granted Full Standing after removing any entrance deficiencies noted at the time their applications for admission were approved. Deficiencies may be removed by:

- establishing credit in the courses recommended by the departmental chairperson as necessary to remove a deficiency, or any group of courses which the departmental chairperson may approve as a suitable substitute for the listed courses; the courses used for removal of deficiencies must be passed with a grade of "C" or better and these courses will not be counted in the graduate program nor in the computation of the graduate quality point average;
- the completion of at least nine (9) semester credits of graduate work, including six (6) semester credits in the major field, with a minimum quality point average of 3.0 for students who entered with a questionable undergraduate background; and obtaining satisfactory scores on admission tests.

In any instance, a student must apply for reclassification to Full Standing prior to the completion of 15 graduate hours. Students who have been admitted to graduate study with Special Standing are not eligible for reclassification until their graduate and undergraduate records have been evaluated by the department in which they wish to major. Credit earned while in Special Standing may not be counted toward a degree until approved by the major departments but in no case will more than nine (9) semester credits be counted.

College of Engineering - Master of Science Admission Requirements

Master of Science Admission Requirements

Applicants for admission to any of the MS programs offered by the departments of the College of Engineering are expected to have earned a BS degree from an approved program, or its equivalent. The admission decision is based on multiple criteria drawn from the following items:

- Undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE® General Test (GRE) scores with Quantitative greater than or equal to 50%; Verbal greater than or equal to 33%; Analytical Writing greater than or equal to 33%. A GRE is not required for applicants to the Computer Science MS program.
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- A score of at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS must be achieved by international students.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Note: all MS engineering degree programs, except Engineering Management , offer the Fast Track program to qualified applicants from the TTU BS program. See department details to find out more about Fast Track.

College of Engineering - Doctor of Philosophy Admission Requirements

A graduate program leading to a Doctor of Philosophy (Ph.D.) degree in Engineering is offered by the College of Engineering. When applying for admission, a student must state on the application the specialization area of study for which admission is requested.

The basic admission standards for the Ph.D. program are the same as for the MS programs, except that, additionally, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale. In addition, a GRE score is not required for applicants to the PhD in Engineering with a Computer Science concentration.

Though the general requirement for admission to the Ph.D. program is a master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate engineering program undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum, but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing at either the MS or Ph.D. level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

International Students

International students having adequate preparation for graduate study may apply for admission, but applications should be filed at least six months prior to the anticipated date of enrollment. Midyear enrollment is strongly discouraged. All students from non-English-speaking countries must submit proof of adequate training and ability in the use of English as evidenced by a satisfactory score on recognized and acceptable tests administered in the student's home country. Normally, it is expected that an applicant will submit a score of at least 3.5 on the Test of English as a Foreign Language (TOEFL) or base score of 6.0 on the International English Language Testing System (IELTS) or 48 on the Pearson Test of English-Academic (PTE-A). Please review the admissions criteria for your desired degree program.

	TOEFL	DUO	IELTS	PTE-A
COLLEGE/SCHOOL*	Test of English as a Foreign Language	Duolingo English Test	International English Language Testing System	Pearson Test of English-Academic
Biology (Master's); Education & Human Sciences (Master's and Ed.S., except Counseling &Psychology); English; Environmental Sciences Biology (Ph.D.); Professional Studies	3.5	100	6.0	48
Agriculture & Human Ecology, Business (Master's); Chemistry; Education & Human Sciences (Ph.D.); Engineering (Master's and Ph.D.); Environmental Science Chemistry (Ph.D.); Mathematics; Nursing; Professional Science	4.0	100	6.0	53

**Check requirements of the specific college or department to determine level needed for admissions.*

We do not recognize a letter of Medium of Instruction as proof of English proficiency. If you are from one of the following countries where English is one of the official languages, an English proficiency exam is not required:

Anguilla; Antigua and Barbuda; Australia; Bahamas; Barbados; Belize; Bermuda; Botswana; The British Virgin Islands; Cameroon; Canada (except Quebec); Cayman Islands; Dominica; England; Fiji; Gambia; Ghana; Gibraltar; Grenada; Guyana; Ireland, Northern; Ireland, Republic of; Jamaica; Kenya; Lesotho; Liberia; Malawi; Malta; Mauritius; Montserrat; Namibia; New Zealand; Nigeria; Papua New Guinea; St. Kitts and Nevis; St. Lucia; St. Vincent and the Grenadines; Scotland; Seychelles; Sierra Leone; Singapore; Solomon Islands; South Africa; Swaziland; Tanzania; Tonga; Trinidad and Tobago; The Turks and Caicos Islands; Uganda; United Kingdom; Vanuatu; Wales; Zambia

Applicants must also give satisfactory proof of sufficient funds to cover all of their expenses including travel.

The College of Graduate Studies will not knowingly consider for admission any person who has entered the United States via an immigration visa issued for another university until that person has transferred their SEVIS record to Tennessee Tech; thereafter, the usual transfer procedures would be implemented. International students who wish to transfer from another university to Tennessee Tech must submit the usual materials required for initial admission; additionally, each applicant must furnish:

1. official transcripts from the current institution;
2. a verification statement from that institution's international student advisor;
3. photocopies of Form I-20 ID (front and back), the passport, the visa, and Form I-94.

Only transfer credit from an accredited university is permitted; each student is expected to complete a full program of study at Tennessee Tech.

In cases where the undergraduate record may furnish insufficient evidence of any applicant's potential for success in graduate study, additional qualifying examinations may be administered by the department in which the applicant proposes to study. The cost of the tests will be borne by the applicant.

If admission is approved, Form I-20 will be issued as follows: not later than June 1 for the fall term, November 1 for the spring term, and April 1 for the summer term. These dates are consistent with immigration regulations and apply to all F-1 non-immigrant students including those transferring from other U.S. institutions and those who are already enrolled at Tennessee Tech who wish to change from one degree program to another.

Enrollment in a program is contingent on the student receiving an appropriate visa.

Resident Alien

A lawful permanent resident of the United States (holder of a "green card") may be required to take the English Placement Test or other tests to determine proficiency in English and the necessity for taking courses in English.

Resident Classification

The residence of a dependent student is presumed to be that of his/her parents. Residence (for fee-paying purposes) is interpreted to mean where the parents are domiciled. Unless the contrary appears from clear and convincing evidence, it is presumed that an emancipated person does not acquire domicile in Tennessee while enrolled as a full-time student at any public or private institution of higher education in the state. A student once classified as an out-of-state student will continue to be so classified unless a review of classification is requested. An emancipated individual who is working full time (30 hours per week or more) in Tennessee may register for up to 7 hours per term at in-state rates while establishing permanent residency.

A graduate assistant is classified as an in-state resident for fee-paying purposes only while he/she is an assistant. Residency will be reviewed when assistantship ends.

Change of residence status for tuition purposes is never automatic. A request for review must be made to the Dean of the College of Graduate Studies and adequate information must be provided by the student to warrant a review of resident status. Many factors, such as full-time employment for an extended period, are taken into consideration when a student's resident status is reviewed. If the review is negative, a request for exception may be filed with the Dean of the College of Graduate Studies and, then, the Graduate School Executive Committee.

If Tennessee residency is approved, the classification change shall be effective at the next registration after the approval has been granted.

Resident Alien

A lawful permanent resident of the United States (holder of a "green card") may be required to take the English Placement Test or other tests to determine proficiency in English and the necessity for taking courses in English.

Veterans' Benefits

Many students enroll for graduate study with financial benefits provided by the Veterans Administration. A student who anticipates receiving VA benefits should keep in mind that enrollment cannot be verified until the student files with the College of Graduate Studies an approved program of study or teacher licensure plan. Certificate of satisfactory process can be verified for no more than two (2) semesters of academic probation.

Any covered individual will be able to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) and ending on the earlier of the following dates:

1. *The date on which payment from VA is made to the institution.*
2. *90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility.*

Tennessee Tech will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement funding from VA under chapter 31 or 33.

General Degree Requirements

Time Limits on Completion of Requirements

A graduate student in a master's or specialist program must complete all degree requirements within six (6) consecutive years. A graduate student in a doctoral program must complete all requirements within eight (8) consecutive years. Time limits shall be computed from and including the first semester the student is admitted and enrolled in a degree program.

All Graduate Courses (both TN Tech and transfer credit) earned toward a graduate program must be taken within the applicable time limit. Courses that exceed the time limit must be validated for currency.

Course Validation

Tennessee Tech courses will be reviewed for current content at the home department where the course is offered. Courses taken outside of TN Tech will be reviewed for current content at the discretion of the department. The department will notify the College of Graduate Studies (via the Course Validation form) regarding the results of course content review and validation. Validated courses will not have to be reviewed again during the remaining time limit associated with the degree program.

Advisory Committee

A graduate student is required to have an advisory committee and is responsible for its formation and maintenance. Several programs have a designated "standing advisory committee." Tennessee Tech Policy 271 provides details on the composition of the student's advisory committee. All requirements related to advisory committee responsibility as defined in Tennessee Tech Policy 282 (Graduate Faculty Appointment and Responsibilities Policy) must be met, except as provided in this section;

- Unless a specific graduate program has direct oversight by a standing advisory committee, all graduate degree programs must follow the committee formation requirements.
- In consultation with their advisor, a graduate student is required to establish their advisory committee and should submit the Advisory Committee Form to the College of Graduate Studies by the completion of 15 semester hours.
- The graduate student, in consultation with the departmental chairperson or graduate student's academic advisor, will determine the formation of the graduate student's advisory committee as part of the Program of Study.
- A minimum of three (3) advisory committee members is required for a master's or specialist degree program.
- A minimum of four (4) advisory committee members is required for a doctoral program in Education.
- A minimum of five (5) advisory committee member is required for a doctoral program in Engineering and Environmental Sciences.
- A graduate student's advisory committee members shall represent each of the areas in which the graduate student expects to study, with two (2) members having background in the major area. The graduate student must have at least one (1) committee member with adequate background and research interests in the area in which the student has proposed a research objective.
- A faculty member has the prerogative of accepting or relinquishing an appointment on a graduate student's advisory committee.
- Professionals who are not employed by Tennessee Tech may serve as a consultant on a graduate student's committee if appointed pursuant to Policy 282 (Graduate Faculty Appointment and Responsibilities).
- Approval requirements are as follows:
    - Three (3) positive votes, or seventy-five percent positive votes, whichever is greater, is required from the advisory committee members of a graduate student pursuing a master's or specialist degree.
    - A minimum of eighty percent positive votes is required from the advisory committee members of a graduate student pursuing a doctoral degree in Engineering or Environmental Sciences.
    - The advisory committee must vote unanimously positive for a graduate student pursuing a doctoral degree in Education.
    - In the event a student does not meet the required number of votes for approval, the student may appeal to the dean of the college in which they are enrolled. The college dean may assign a subcommittee to review the appeal. However, the decision from the dean of the college is final.
- The graduate student is responsible for submitting to the College of Graduate Studies any change in advisory committee.

Program of Study

Following admission into a graduate degree program, a graduate student will work with their academic advisor and committee members to determine the specific courses needed to fulfill their degree requirements.

Comprehensive Examination

At or near the completion of the course requirements for the graduate degree, each candidate must pass a comprehensive examination conducted by the candidate's graduate advisory committee. The examination may be oral or written or both. In the examination the student should demonstrate the breadth of knowledge in the discipline, depth in specific areas, and the ability to integrate what has been learned. The following degree programs have a capstone course in which the final course completion is used in place of the comprehensive examination.

- Curriculum and Instruction, and Instructional Leadership (M.A. and Ed.S.) completion of CUED 6305 or CUED 6315 or CUED 7910

- Exercise Science and Wellness (M.A.) completion of EXPW 6550
- Electrical Engineering non-thesis completion of final project course, ECE 6970
- Masters of Business Administration completion of BMGT 6950
- Masters of Nursing completion of NURS 6990
- Masters of Professional Studies completion of PRST 6998
- Mechanical Engineering non-thesis completion of final project course ME 6900
- Professional Science Masters completion of ESS 6910

Thesis/Dissertation Defense

Serving as a comprehensive examination for students pursuing a thesis track master's or doctorate, a formal defense of the thesis or dissertation is required. Scheduling of the defense is the candidate's responsibility. The defense will be attended by the candidate's advisory committee and other designees as the individual degree defines.

Application for Graduation

In addition to satisfying all degree requirements, a candidate for a degree must file an Application for Graduation one semester prior to the semester in which the degree is expected to be conferred. The deadline for the filing of the application is posted on the College of Graduate Studies website each semester.

A graduate student shall be enrolled for a course approved by the graduate advisor during the term in which the degree is awarded unless all requirements have been completed by the last day to register for the term. Any prior courses with a grade of "I" do not count toward enrollment hours.

If a student applies for graduation but fails to satisfy graduation requirements, the student must reapply; this must be done by the date appearing in the online calendar.

All final degree requirements for graduation must be filed in the Graduate Studies Office no later than one (1) week prior to commencement, with the exception of the defense form and comprehensive exam form which are due three (3) weeks prior to commencement. Transcripts from other universities used as transfer credit on a program of study must be received no later than two (2) weeks after the commencement date.

The advisory committee approved copy of the thesis/dissertation must be submitted through the ETD Administrator (ProQuest) for format review no later than two (2) weeks prior to commencement. The final copy for publication through ProQuest must be submitted via the ETD Administrator one (1) week prior to commencement.

Commencement

A commencement ceremony will be held at the end of the spring and fall terms. There is no summer commencement ceremony. Summer graduates who wish to participate in commencement will be allowed to return to the University for the fall commencement ceremony. Exceptions may be made to this policy for extenuating circumstances. Students requesting to walk in a commencement other than the semester that the degree is conferred, are required to request prior approval. An "Exception to Walk in Commencement" should be filed by the student (the form may be found ONLINE at College of Graduate Studies - Online Forms (tntech.edu)) at least four weeks before the end of the semester. The completed form is to be electronically signed by the student's advisor, department chair, and the Dean of the College of Graduate Studies. Students may participate in only one (1) commencement ceremony for each degree earned at Tennessee Tech University.

Master's Degree General Requirements

Programs of Study

Programs of study toward advanced degrees are less formal than for undergraduate degrees. Individual programs are planned for each student on the basis of educational background and career objective. Graduate degrees are not only awarded on the basis of completion of specific courses, but also on the basis of evidence of proficiency, scholarship, reasoning and investigation, and high attainments in the field of the student's specialization.

Although the maximum number of credits required in any degree program is determined in accordance with the formalized program approved for each student, a candidate for the master's degree must complete at least 30 semester hours of credit in a program requiring a thesis or at least 30 semester hours in a nonthesis program. Nonthesis options may be permitted by departments when authorized by the Graduate Studies Executive Committee (see "credit requirements" below). At least seventy percent of the credit to be counted toward a master's degree must be at the 6000 level or above. In addition to the minimum course credits required for the advanced degree, other courses may be required as prerequisites depending upon the student's educational background, preparation, and objectives; however, credit earned below the 5000 level will not be counted toward a graduate degree. Courses listed as 4000 (5000) may be taken only at the 5000 level for graduate credit, and graduate credit is earned on the basis of additional work required by the instructor. Courses taken at the 4000 level may not later be taken at the 5000 level without special permission from the departmental chairperson, dean of the college, and the Associate Dean of Graduate Studies. Credit earned for one (1) degree program cannot be used in another degree program.

Any nonthesis program which is considered for approval by the Graduate Studies Executive Committee must demonstrate that it fosters independent learning.

Each proposed program of study must align with the Graduate Catalog and must be approved by the student's advisory committee, the department chairperson, and the Dean/designee of the college.

There may be a hold placed on a student's registration if the program of study has not been filed in the Graduate Studies Office by the time 15 semester hours have been earned.

Admission to Candidacy

Graduate students in a program leading to the master's degree, except those in Special Standing, should make application for admission to candidacy immediately following the completion of nine (9) semester hours of graduate credit. If application is not made by the time 15 hours are completed, the student may not be permitted to register for subsequent work until the application is approved. The requirements which must be met before approval of admission to candidacy are:

1. the achievement of Full Standing.

2. the completion of at least nine (9) semester hours of graduate credit with a minimum quality point average of 3.0.
3. the written approval by the student's advisory committee.
4. the written approval of the chairperson of the major department.
5. successful completion of any examination which may be required by the student's department.

If the student's application for admission to candidacy is not approved due to academic deficiencies, the student cannot continue graduate study with a major in any of the departments of the college in which he/she is studying.

Credit Requirements

A candidate for the master's degree must normally complete at least 30 semester hours of credit in a program requiring a thesis and at least 30 semester hours in a nonthesis program. Nonthesis options are available in all departments of the College of Education and Human Sciences, in the Departments of English in the College of Arts & Sciences, and in the College of Engineering. The Master of Accountancy in the College of Business and the Master of Professional Studies in the College of Emerging and Integrative Studies are nonthesis programs that requires only 30 hours. The master's program in Exercise Science requires only 30 hours. The master's program in Psychology within the Department of Counseling and Psychology requires 30 hours for the non-thesis option and 33 hours for the thesis option.

At least 21 semester credits including the thesis shall be required at the 6000 level or above in a 30-hour program for the master's degree; at least 23 semester credits at the 6000 level or above shall be required in a 33-hour master's program. The remainder of the courses in the program of study may be at the 5000 level; however, not more than 30% of the courses in a student's program of study may be in dually numbered 4000 (5000) courses. Courses below the 5000 level will not be counted toward a graduate degree.

Requirements for a Major

A student's program of study must reflect a reasonable concentration in related or interrelated courses. A department may require that all of the courses in a student's program be taken in that department; or it may require that a major portion be taken in that department and allow for one or more minor areas of collateral study in other departments.

Transfer and Other Credit

Students who request to transfer graduate course credits from an accredited institution to Tennessee Tech must request that the institution send official transcripts directly to Tennessee Tech University. Official transcripts must include all grades.

The program department will determine, at its sole discretion, what transfer coursework is eligible for transfer to the student's program of study.

The coursework transferred or accepted for credit toward a graduate degree must have a minimum grade of "B" in each course.

For all graduate degree programs, the department will determine, in its sole discretion, the number of transfer credits it will accept, provided the department's decision is in compliance with SACSCOC Accreditation Principle 9.5.

Tennessee Tech will exclude grades earned in transferred courses in the calculation of grade point averages.

Tennessee Tech Policy #283 (General Graduate Transfer Credit Requirements) provides additional information on Transfer Credit.

Thesis

When a thesis is required in a student's program of study, no fewer than six (6) credit hours for Graduate Course 6990 (Master's thesis) will be counted towards the degree. Thesis (and dissertation) credit is made available in increments of 3, 6, or 9 semester hours during any given semester (and in some departments as one [1] hour credit). A graduate student shall be required to be registered for at least one (1) course appropriate to the student's degree objective in order to have access to computer equipment, laboratories, library, and other university facilities and resources even if the student is working in absentia on research and thesis. A graduate student shall be enrolled during the term in which the degree is awarded. When a student makes satisfactory progress in research and thesis, a grade of SP (Satisfactory Progress) will be assigned for credit earned. When satisfactory progress is not achieved, a grade of NP (No Progress) will be assigned; however, a grade of NP shall not be counted as having satisfied either program or degree requirements, and the student must register again for additional thesis (or dissertation) credit. Only grades of SP and NP shall be used to indicate a student's progress in thesis or dissertation credit.

Thesis Preparation:

The College of Graduate Studies requires all graduate students to follow the "Guide to the Preparation of Theses and Dissertations" that is published on the College website. The College of Graduate Studies will review the graduate student's thesis for formatting to ensure the thesis adheres to the Guide. The College will not review the paper's content, spelling, or accuracy of the citation.

Once the graduate student's advisory committee certificate approval page has been submitted to the College of Graduate Studies, the graduate student must submit the thesis electronically (through eTD ProQuest) to the Graduate School at least two (2) weeks prior to the close of the semester in which the degree is to be conferred (or at an earlier date if such is specified in the University calendar). Refer to the College of Graduate Studies website regarding requirements for electronic submission. Any thesis/dissertation that does meet the required standards will be returned to the student who will have one (1) week maximum to make corrections and resubmit. Failure to do so will result in ineligibility for graduation. All theses/dissertations that meet the required standards will be forwarded on for publication and the student will be eligible for graduation.

The graduate student's failure to complete the thesis review and formatting process with the College of Graduate Studies by the posted deadline on the College of Graduate Studies calendar, will result in the graduate student's ineligibility to graduate.

Thesis Defense:

A graduate student pursuing a thesis track master's will be required to participate in a formal defense of his/her thesis.

Prior to scheduling the thesis defense, the graduate student must submit the thesis certificate of approval page to the College of Graduate Studies for format review and approval.

The graduate student is responsible for scheduling his/her thesis defense with his/her advisory committee to allow enough time to submit the defense results to the College of Graduate Studies by the deadline established by the College. Failure to defend the thesis by the deadline will prevent graduation.

A graduate student's thesis defense is open to the public.

All the graduate student's advisory committee members are required to attend the thesis or dissertation defense.

Failure to submit the graduate student's thesis defense results to the College of Graduate Studies by the posted deadline on the College of Graduate Studies calendar will result in the graduate student's ineligibility to graduate.

Nonthesis

Most non-thesis graduate programs and some thesis graduate programs require that the graduate student successfully pass a Comprehensive Exam conducted by his/her advisory committee at or near the completion of his/her graduate program. Failure to submit the Comprehensive Exam results by the posted deadline on the College of Graduate Studies calendar will result in the graduate student's ineligibility to graduate.

Several non-thesis graduate programs have a capstone course or project course in which the final course completion is used in place of the Comprehensive Examination.

Any nonthesis program that comes before the Graduate School Executive Committee for consideration for approval must foster independent learning.

Second Master's Degree

A student holding an earned master's degree from Tennessee Tech or an accredited institution may qualify for a second master's degree by completion of graduate work approved by the graduate student's advisory committee, provided:

1. If the graduate student has previously earned a master's degree at Tennessee Tech, then a minimum of 21 semester hours taken at Tennessee Tech must be completed for a thesis second master's degree or 24 semester hours if non-thesis.

2. If the graduate student has not previously earned a master's degree at Tennessee Tech, a minimum of 24 semester hours taken at Tennessee Tech must be completed for a thesis second master's degree or 27 semester hours if non-thesis.

3. The graduate student successfully completes all requirements prescribed in the specified graduate program.

College of Graduate Studies - How to Apply (tntech.edu)

College of Engineering - Master of Science Degree Requirements

Master of Science Degree Requirements

A master's degree is a certification that the recipient is able to read with understanding and apply with profit the literature of his/her field. The general requirements for an MS degree are the same for all departments: development and completion of a program of study which includes a minimum of 24 semester hours of course credits and at least six (6) semester hours of thesis. All pertinent regulations of the Graduate School apply.

Listed below are College of Engineering regulations that are clarifications of, or additions to, those promulgated by the Graduate School. Additional information can be found in the listings of the individual departments.

Advisory Committee

Every master's student is required to have an advisory committee having a minimum of three (3) members. The student is responsible for identifying, in consultation with the departmental chairperson, a faculty member who is willing to chair his/her advisory committee. In consultation with the chairperson of the committee, the student is responsible for identifying at least two (2) other faculty members who are willing to serve on his/her committee. Advisory committees may include more than three (3) members. If desired or required, two (2) members of the committee may serve as co-chairs of the committee rather than the committee having one (1) chair. If a student is not able to identify a sufficient number of faculty who are suitable and willing to serve on his/her advisory committee, the student will be advised by the departmental chairperson that he/she should either change his/her area of research interests to more closely match those of the available faculty or consider selecting another major. Failure to be able to form a committee is cause for transfer to non-degree status. Further regulations concerning the membership, appointment and responsibilities of a student's advisory committee are given in other sections of the catalog, including the sections on "Organization of the Graduate School" and "Degree Requirements."

Thesis/Comprehensive Examination

A thesis is required for all MS degrees in the college of engineering, except the MS in Engineering Management. All five MS degrees in the college also offer a non-thesis option.

A candidate for a master's degree must submit a thesis in writing and orally present and defend the thesis to his/her advisory committee. The meeting at which the thesis presentation and defense occurs also serves as the time for the student's final oral comprehensive examination over any or all aspects of the student's master's program. On the form on which the chairperson of the student's advisory committee reports the results of the thesis defense, the chairperson also reports the results of the comprehensive examination, including a brief synopsis of the examination.

Limitations on Graduate Assistantships

A master's student may receive support during the first two (2) calendar years after initial enrollment. This time limitation does not imply a student will receive support during his/her first two (2) years. Whether or not a student receives support depends on the availability of funds and the suitability of the student to carry out the responsibilities associated with the support. Support beyond the stated limits, regardless of source of funding in the College of Engineering, requires justification, which must be reviewed and approved by the Associate Dean of Engineering Research an Innovation prior to the implementation. (See College of Engineering website for the exception request form.)

Specialist in Education Degree General Requirements

Specialist in Education Degree

The program of study leading to the Specialist in Education degree (Ed. S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional educator working with other educators. The program will therefore be tailored to serve the needs and objectives of the individual student.

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level and no course below the 6000 level shall be counted for credit unless written approval is obtained from the student's advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

Although a thesis is not required in the specialist program, the student is expected to become well acquainted with research in the field of specialization and to demonstrate competence in research methodology. In order to satisfy these expectations, the student must earn at least three (3) semester hours in courses of a laboratory and/or field experience nature and three (3) semester hours in an independent study project.

Admission To Candidacy

Graduate students in a program leading to the Specialist in Education degree should make application for admission to candidacy immediately following the completion of fifteen (15) semester hours of graduate credit. If application is not made by the time 15 hours are completed, the student may not be permitted to register for subsequent work until the application is approved. The requirements which must be met before approval of admission to candidacy are:

The achievement of Full Standing

- The completion of at least fifteen (15) semester hours of graduate credit with a minimum quality point average of 3.0.
- The written approval by the student's advisory committee.
- The written approval of the chairperson of the major department.
- Successful completion of any examination which may be required by the student's department for admission to candidacy.

If the student's application for admission to candidacy is not approved due to academic deficiencies, the student cannot continue graduate study with a major in any of the departments of the college in which he/she is studying.

Students in the counseling program within the Department of Counseling and Psychology will take the national Counselor Preparation Comprehensive Examination (CPCE) during their first semester of study. This examination will be diagnostic in nature and must be passed to graduate from a counseling Ed.S. program.

Final clearance for candidacy will be achieved only upon recommendation by the department in which the student is majoring, subject to approval of the Associate Dean of the College of Graduate Studies.

Prior to admission to candidacy the student may be required to remove certain deficiencies resulting from insufficient background preparation for the specific field or from the absence of certain prerequisite courses essential in preparation for pursuing the proposed specialist program. The candidacy step should not be confused with the final comprehensive examination which is required of all degree candidates and which has been explained previously in the general regulations section of this catalog.

Transfer And Other Credit

Students who request to transfer graduate course credits from an accredited institution to Tennessee Tech must request that the institution send official transcripts directly to Tennessee Tech University. Official transcripts must include all grades.

The program department will determine, at its sole discretion, what transfer coursework is eligible for transfer to the student's program of study.

The coursework transferred or accepted for credit toward a graduate degree must have a minimum grade of "B" in each course.

For all graduate degree programs, the department will determine, in its sole discretion, the number of transfer credits it will accept, provided the department's decision is in compliance with SACSCOC Accreditation Standard 3.6.3.

Tennessee Tech will exclude grades earned in transferred courses in the calculation of grade point averages.

Tennessee Tech Policy #283 (General Graduate Transfer Credit Requirements) provides additional information on Transfer Credit.

Other Regulations

In addition to these specific requirements for the Specialist in Education Degree, all candidates will be expected to comply with general regulations of the Graduate School. (See Regulations and Degree Requirements in previous sections of this catalog.)

Doctor of Philosophy Degree General Requirements

Advisory Committee Formation

Each Ph.D. student's advisory committee is determined by the department in which the degree is offered. The committee will have a minimum number of voting members from predetermined departments or fields. The student is responsible for identifying, in consultation with the departmental chairperson, or director and dean or associate dean of the respective college, a faculty member who is willing to chair his/her advisory committee. The chairperson of the committee and the student are responsible for identifying the other faculty members required/desired and determining if they are willing to serve. Advisory committees are permitted to have more than the minimum number of members required. If necessary, the advisory committee may be co-chaired. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the Graduate Catalog and administered by the College of Graduate Studies.

If a student is not able to identify a sufficient number and type of faculty who are suitable and willing to serve on his/her advisory committee, the student will be advised by the Dean that he/she should either change his/her area of research interest to more closely match those of the available faculty or consider selecting another major. Failure to be able to form a committee is a cause for transfer to non-degree status. Further regulations concerning the membership, appointment, and responsibilities of the advisory committee are given in other sections of the catalog, and in College of Graduate Studies Policy 282.

Program of Study

Programs of study toward advanced degrees are less formal than for undergraduate degrees. Individual programs are created for each student on the basis of educational background and career objective. Graduate degrees are not only awarded on the basis of completion of specific courses, but also on the basis of evidence of proficiency, scholarship, reasoning and investigation, and high attainments in the field of the student's specialization.

Each proposed program of study must be approved by the student's advisory committee, the departmental chairperson or program director, the dean or associate dean of the respective college, and the associate dean of the College of Graduate Studies.

There will be a hold placed on a student's registration if his/her Program of Study form has not been filed in the College of Graduate Studies office by the semester in which 15 credit hours will be earned.

Comprehensive Examination

Before requesting that his or her major professor schedule a Comprehensive Examination for Candidacy, a student must:

- have achieved Full Standing in the program; and
- have completed approximately 80% of the course work in his/her Program of Study.

The method of testing may consist of written, oral, and/or presentation components.

Details of this examination, including format, content, method of evaluation, timing, and deadlines will be determined by the college/departmental regulations. Successful completion of the Comprehensive Exam for Candidacy advances the student to official doctoral candidate status.

Admission to Candidacy

Admission to candidacy is granted when a student successfully completes the exam mentioned above. The advisory committee chairperson will complete an Admission to Candidacy Comprehensive Exam form, which will be signed by the student's advisory committee, the departmental chairperson or program director, the dean or associate dean of the respective college, and then sent to the associate dean of the College of Graduate Studies.

The candidate will then continue his/her research and prepare the doctoral dissertation and defense to fulfill all degree requirements.

Dissertation & Defense

Dissertation credit is offered in increments of 3, 6, or 9 credit hours during any given semester (and in some departments as one (1) credit hour). A graduate student shall be required to be registered for at least one (1) course appropriate to the student's degree objective in order to have access to computer equipment, laboratories, library, and other university facilities and resources even if the student is working in absentia on research and dissertation. A graduate student shall be enrolled during the term in which the degree is awarded. When a student makes satisfactory progress in research and dissertation, a grade of SP (Satisfactory Progress) will be assigned for credit earned. When satisfactory progress is not achieved, a grade of NP (No Progress) will be assigned; however, a grade of NP shall not be counted as having satisfied either program or degree requirements, and the student must register again for additional dissertation credit. Only grades of SP and NP shall be used to indicate a student's progress in dissertation credit.

The graduate student is expected to consult frequently with the major advisor during dissertation preparation. At the time the final rough draft has been completed, the dissertation should be in electronic form. The only content revisions the student should make are those suggested by the advisory committee. The student should allow ample time for the committee to review the dissertation, usually no less than two (2) weeks.

The College of Graduate Studies has published the Guide to the Preparation of Theses and Dissertations which serves as the official manual for all theses or dissertations. Also provided is a "Thesis/Dissertation Checklist" which outlines basic formatting requirements.

Although examples in this guide are recommended for making footnotes, endnotes, and giving bibliographical references, each department is encouraged to use those systems of citations that are most commonly used in its own discipline. Any other departure from this manual must have the prior approval of the associate dean of the College of Graduate Studies. The guide is on the College of Graduate Studies website.

A student must submit the final, error-free copy of his/her dissertation electronically (through eTD ProQuest) to the College of Graduate Studies by the date specified on their website's calendar of deadlines. Please see Graduate Studies' personnel regarding requirements for electronic submission or deadline date questions. Any dissertation that does not meet the required standards will be returned to the student, who will then be required to complete requested revisions and resubmit new versions until all required corrections are made. Failure to do so will result in ineligibility for graduation. All dissertations that meet the required standards will be forwarded on for publication, and the students will be eligible for graduation.

Transfer and Other Credit

For all graduate degree programs, the department will determine, at its sole discretion, the number of transfer credits it will accept, provided the department's decision is in compliance with SACSCOC Accreditation Standard 3.6.3 and any other applicable accreditation requirements. Accreditation Standard 3.6.3 states, "At least one-third of credits toward a graduate or a post-baccalaureate professional degree are earned through instruction offered by the institution awarding the degree." For a list of accrediting agencies recognized, refer to the U.S. Department of Education website.

Credit by special examination is not permitted at the graduate level; however, special examinations to determine competency or proficiency in courses where credit has already been earned but is currently out-of-date may be permitted during a period of up to three (3) consecutive semesters immediately following the eight-year time limitation. Special examinations may also be permitted to validate transfer credit, but the credit must be originally earned as graduate credit and not undergraduate credit.

Graduate credit will not be given for correspondence courses.

Graduation / Hooding

No doctoral degree candidate is permitted to participate in commencement until all requirements for the degree are successfully completed.

College of Engineering - Doctor of Philosophy Degree Requirements

The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000- level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a "B" grade or better. Transfer credit GPA will not apply towards the program's GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student's graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Fees and Expenses

For the most complete and up-to-date information on tuition and fees, go to https://www.tntech.edu/bursar/tuition

For information on refunds, go to Bursar Office - Refunds

Note: a student may not enroll or receive a diploma, transcript of records, or grade report until all matured debts or obligations to the University, or any phase of its program, have been cleared.

Graduate Courses

Graduate courses are numbered at the 5000, 6000, and 7000 levels:

- 5000-5990 Graduate Level
- 6000-6990 Graduate
- 7000-7990 Advanced Graduate
  (Restricted to Graduate Students)

Graduate courses and are offered in the College of Agriculture and Human Ecology, College of Arts and Sciences, College of Business, College of Education and Human Sciences, College of Engineering, and College of Emerging and Integrative Studies. These courses are described within the Graduate Catalog and are listed by departments. Numerous senior level courses are permitted for graduate credit when offered dually as 4000 (5000) and taken at the 5000 level.

A graduate student may be permitted to register for any course which appears in the Schedule of Classes; however, only those courses taken at the 5000, 6000, and 7000 levels may be counted for graduate credit.

Courses which are dually numbered, i.e., 4000 (5000), are essentially undergraduate courses in which graduate students may earn graduate credit on the basis of required additional work defined by the instructor in the course syllabus. Graduate credit will not be given for a course numbered at the 4000 level or below. A course taken at the 4000 level may not be taken later at the 5000 level without special permission from the departmental chairperson, college dean, and the Dean of Graduate Studies.

At least 70% of the Graduate Course credit to be counted toward a master's degree must be at the 6000 level or above (with the exception of those programs that fall under state-wide numbering schemes, specifically TNeCampus, MPS, MSN, and DNP 5000 level courses.)

At least 15 Graduate Credit Hours must be taken at the 7000 level for a specialist degree, unless written approval is granted by the graduate student's advisory committee, department chair, and Dean of the College of Graduate Studies.

No Graduate Course below 6000 level will be counted toward a specialist degree unless written approval is granted by the graduate student's advisory committee, department chair, and the Dean of the College of Graduate Studies.

A non-degree graduate student subsequently admitted into a graduate program may use up to nine (9) previously earned graduate Credit Hours toward the graduate program, upon approval from the graduate student's advisory committee.

All graduate coursework is part of the graduate transcript and all grades earned are part of the cumulative GPA. This applies to all Graduate Courses completed, even if the Graduate Courses are not part of the degree requirements.

A graduate student must achieve a Grade of at least "C" on all Graduate Courses taken, including those taken for non-degree purposes. (See ***Quality of Work*** for more information on GPA and "C" grades.)

The University reserves the right to change course numbers and course descriptions after the date of publication of the catalog, or to decline to offer the course as described when circumstances warrant such action.

Tennessee Tech will grant credit toward a graduate program for any Graduate Course in which a graduate student earns a Grade of A, B, C, S, P, or SP toward the final approved Program of Study, unless otherwise required by a specific program. Tennessee Tech, however, will not accept more than six (6) Credit Hours of "C" earned toward any graduate program.

A graduate student may appeal an assigned Grade through Tennessee Tech Policy 218 (Grade Appeals Policy).

Definition of Credit Hour

Tennessee Technological University is organized on the semester basis. When the term *hour* or *credit* is used, it refers to a semester-hour credit. One semester hour of credit requires one hour (55 minutes) of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks.

Two or more hours of laboratory or studio work are required per hour of credit. An equivalent amount of work is required for practica and other academic activities that award credit. Summer, intersession or other alternate course formats require the equivalent amount of work per credit hour. Laboratory hours per credit are determined by the department or college. Semester credit hours earned in courses such as internships, research, theses, dissertations, study abroad, etc. are based on outcome expectations established by the academic program.

Grading and QPA

Quality Points Average (QPA)

On September 1, 1951, the University adopted a 4.0 quality point scale, changing from the 3.0 scale.

Quality points are assigned to each semester-hour credit as follows:

- For a grade of A, 4 quality points
- For a grade of B, 3 quality points
- For a grade of C, 2 quality points
- For a grade of D, 1 quality point
- For grades of F, I, X, NF, W, S, SP, NP, U, and WF, no quality points.

The quality point average for the semester is determined by dividing the total quality points earned by the total semester hours attempted (excluding courses in which grades of I, W, S, SP, NP, and U were earned). The cumulative quality point average is determined by dividing the total quality points for all semesters by the cumulative hours (excluding courses in which grades of I, W, S, SP, NP, and U were earned). Noncredit courses are disregarded in computing the quality point average.

When a course is repeated, the grade on repeated work as well as the original grade will be included in calculation of the quality point average. Credits attempted with a grade of I, W, S, NP, and SP are disregarded, but credits attempted with grades of X, WF, NF, and U are counted as F's.

Grading

Grades are indicated by letters.

- A--Excellent
- B--Good
- C--Satisfactory
- D--Passing*
- F--Failure
- I--Incomplete
- NF--Fail, Never Attended
- X--Absent from Examination
- W--Withdrew Passing
- WF--Withdrew Failing
- S--Satisfactory
- P--Passing**
- U--Unsatisfactory
- SP--Thesis (Satisfactory Progress)
- NP--Thesis (No Progress)

*D is a Passing grade for undergraduate students only. For graduate students, only grades of A, B, C, S, P, and SP are considered satisfactory, with not more than two (2) grades of C allowed for graduate degree purposes.

**At the graduate level, P/F (Passing/Fail) grades are only approved for COUN 6800, COUN 6820, COUN 6821, COUN 6830, and COUN 7830. A student must meet the minimum requirements for a grade of B to earn a P grade in these courses.

Grade of I (Incomplete)

An instructor may assign an "I" Grade when a student's performance has been satisfactory, but for reasons beyond the student's control, they have not been able to complete the Graduate course requirements within the allotted time.

When a Grade of "I" is assigned, the graduate student will not be required to register for the Graduate course again but must complete the original course requirements with the original instructor, if applicable.

Upon approval of the instructor, the graduate student has up to one (1) calendar year or until the time of graduation, whichever comes first, to remove the "I".

Completion of a Graduate course with a Grade of "I" does not count toward enrollment hours.

The "I" is excluded from the calculation of the graduate student's Current GPA and Cumulative GPA until a Grade is earned.

If the "I" is not removed within the established time limits, it is automatically changed to a Grade of "IF". The Grade of "IF" will remain on the student's academic record permanently and will be included in the Cumulative GPA. A Graduate student cannot graduate with an "I" on their record.

Grade Appeal Procedure

The university grade appeal procedure is outlined in Tennessee Tech Grade Appeals Policy #218.

Quality of Work

Required QPA

A graduate student is required to maintain a cumulative grade point average of at least B (3.0) on all courses taken including those taken for non-degree purposes. Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, C, S, P, or SP is assigned; however, not more than six (6) hours of "C" credit will be accepted. If a grade of D, U, X, IF, F, WF, FA, or NF is assigned the course must be repeated; and both the original grade and the grade for the repetition will be counted in the cumulative average.

Course Repetition

Each graduate program in which graduate course repetition is permitted is limited to one (1) repetition per graduate course.

Unless defined otherwise by a program, a student shall repeat any "C" grade earned beyond six (6) credit hours of "C" on graduate level courses.

The cumulative graduate course repetition shall not exceed nine (9) credit hours in any graduate program.

M.B.A. Requirement

An MBA student is required to maintain a cumulative grade average of at least B (3.0) on all courses taken for degree purposes Courses may be repeated at the discretion of the student, and both the original grade and the grade for the repeat will be counted in the cumulative average. Any student receiving a D or an F in an MBA degree course shall be dismissed from the program.

Nursing Requirements

1. Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
2. In addition, a graduate nursing student must achieve a grade of "B" or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
3. MSN students who earn less than a "B" in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student's overall GP A.
4. If a student's cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
5. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GP A of 3 .0 after one semester may be subject to dismissal without a probationary term.
6. An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one "I" grade cannot progress in the program. Time extension requests for removal of an "I" grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An "I" grade not removed under the guidelines in the Graduate Catalog will be converted to an "F."

Progression:

Students must report the following to the Dean of the Whitson-Hester School of Nursing (WHSON) within 72 hours of change of status or requirement:

1. Any adverse action taken against their RN licensure (i.e. probation, termination, suspension, limiting scope of practice, any change in activity);
2. Placement in the Tennessee Peer Assistance Program (TNPAP) or any other peer assistance program.
3. Admission to a substance abuse rehabilitation program.
4. Any legal issues that may result in a change in their ability to pass a criminal background check, including but not limited to arrests or convictions (see University's Arrest and Conviction Self-Disclosure form (link)) or change of status legal status with regards to probation or parole.

Failure to disclose to the WHSON could result in automatic dismissal from the MSN program. In addition, student must disclose the same information to preceptors and clinical agencies and provide appropriate documentation of this disclosure to WHSON.

Graduate Assistant GPA Requirements

A graduate assistant is required to maintain a minimum quality point average of 3.0 each semester. Upon the recommendation of the appropriate departmental chairperson and academic dean, the student may be permitted to retain the assistantship on probation for one (1) semester should the average fall below the minimum requirement.

Probation for Unsatisfactory Performance

When a student has a cumulative GPA of less than 3.0, but not less than 2.00 at the end of a semester, they will be placed in Probationary Academic Standing.

Any graduate student placed in Probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester.

Dismissal for Unsatisfactory Performance:

A graduate student will be dismissed from the graduate program if any one of the following conditions occurs:

1. The graduate student's Current GPA or Cumulative GPA falls below 2.0.
2. The graduate student fails to achieve Good Academic Standing by the end of the next enrolled semester following a semester that the graduate student was placed in Probationary Academic Standing.
3. The graduate student earns two Grades of "F"
4. A graduate student has two consecutive semesters of "NP" (No Progress) in thesis or dissertation graduate courses.
5. A graduate student fails to meet program-specific requirements.
6. The graduate student does not successfully pass all examinations for admission to candidacy as required by their graduate program.

A graduate student who has been dismissed for unsatisfactory performance may request reinstatement through the appeal procedures in Tennessee Tech Policy #281 (Graduate Student Reinstatement after Dismissal and Appeal Procedures).

https://tntech.policytech.com/

Course Repetition Policy

A course repetition is required for all Graduate Courses in which a Grade of D, U, X, IF, F, FA, WF, or NF is earned. Both the original Grade and the Grade for the repetition will be counted in the Cumulative GPA.

Each graduate program in which Graduate Course repetition is permitted is limited to one (1) repetition per Graduate Course.

Unless defined otherwise by the program, a student must repeat any "C" grade earned beyond 6 credit hours of "C" on graduate level courses.

The cumulative Graduate Course repetition cannot exceed nine (9) Credit Hours in any graduate program.

Some Graduate Courses that share the same prefix and number are permitted to be taken more than once for credit and are not considered repetition due to the change in Graduate Course material. These types of Graduate Courses are noted in Course Descriptions.

Permissible Loads

Nine (9) credit hours in the fall or spring semester constitutes a full load for a graduate student. During the Summer Semester, a full load is six (6) hours taken in the 1st term, 2nd term, or a combination of both terms. The maximum permissible load is 16 credit hours per semester, inclusive totals of all credits earned at all institutions. Tennessee Tech Policy 274 (Graduate Assistantship), describes Graduate Course load limits for graduate assistants.

Permissible Loads of International Students

Each semester, except summer, an international graduate student must earn a minimum of nine (9) credit hours if a Master's student and six (6) credit hours if a PhD student. In the event that an international graduate student attending TN Tech on an F-1 Visa has not attended another F-1 certified school continuously for one academic year (30 weeks) the student will be required to enroll in the summer term as a full-time student (3 hours non-online coursework). However, if the student's department chair determines that appropriate courses are not available during the summer term, the student is not required to enroll as described above. Documentation stating the lack of appropriate course availability should be maintained in the student's immigration file. Tennessee Tech Policy 240 (Full Course of Study Requirements for International Students), describes Graduate Course load minimums for international graduate students. Tennessee Tech Policy 274 (Graduate Assistantship), describes Graduate Course limits for graduate assistants.

Permissible Loads of Graduate Assistants

To receive and maintain full-time graduate student status, a graduate assistant must meet the following registration requirements:

- For the summer semester, a Graduate Assistant must register for a minimum of one (1) credit hour but not more than twelve (12) graduate credit hours.
- For the fall and spring semesters, a Graduate Assistant must register for a minimum of six (6) credit hours but not more than twelve (12) graduate credit hours.

A graduate assistant is classified as an in-state resident ONLY while working as a graduate assistant. Classification status will be reverted back to out-of state when the assistantship ends.

Change of Major

A student is admitted to a degree program upon a declaration of a major area of study. The student may change their major area of study only if the department of the new major admits the student. The student must complete the Change of Major/Concentration Request which may be found on the College of Graduate Studies website. College of Graduate Studies - Online Forms (tntech.edu)

Graduate Academic Fresh Start

Graduate Academic Fresh Start is a plan of academic forgiveness provided for graduate students who have gained maturity in learning through extended experience outside higher education institutions. The Academic Fresh Start allows the calculation of the quality point average and credit hours toward graduation to be based only on work done after returning to college under the Academic Fresh Start program.

Individuals interested in requesting a Graduate Academic Fresh Start must submit a completed application College of Graduate Studies - Online Forms (tntech.edu) to the College of Graduate Studies, including a written justification for the request.

A Graduate Academic Fresh Start request is limited to situations where the individual wishes to apply to a graduate degree program other than the previously attempted coursework.

An individual seeking a Graduate Academic Fresh Start must:

1. Submit a completed change of major form to the College of Graduate Studies;
2. Submit all admission documents as required by Tennessee Tech Policy 270; and
3. Meet all the requirements for admission as determined by the program and the College of Graduate Studies.

The approval of a request for a Graduate Academic Fresh Start is at the discretion of the department and academic dean for the program to which the individual is applying and the Dean of the College of Graduate Studies.

An individual may receive only one Graduate Academic Fresh Start.

Previous coursework will not be used to satisfy the requirements of the new degree program.

Research Opportunities

Research is an integral part of the University and is broadly defined to include studies, investigations, and other scholarly and creative pursuits. Faculty involvement may be on an individual basis or as members of interdisciplinary teams. Many faculty include students in their research activities and are encouraged to do so.

The University's membership in research-oriented organizations compliment and enhance both faculty and student research opportunities. Among the organizations is Oak Ridge Associated Universities (ORAU).

Since 1981, students and faculty of Tennessee Tech University have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 96 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one (1) month to four (4) years. Many of these programs are especially designed to increase the numbers of

underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *ORISE Catalog of Education and Training Programs*, which is available at following link Oak Ridge Institute for Science and Education (ORISE) or by calling either of the contacts below.

ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

For more information about ORAU and its programs, contact the Office of Research at (931) 372-3374 or the web site at www.tntech.edu/research. You may also contact the ORAU Corporate Secretary, at (865) 576- 3306 or visit the ORAU Home Page at www.orau.org.

There are identified units within the university that have a research component, and in some instances these units provide opportunities for student research focused in a particular area. One example is the Upper Cumberland Humanities and Social Sciences Institute. This interdisciplinary institute is designed to promote humanities and social sciences in the University and in the institution's service area through the Upper Cumberland Studies Program, funded research projects, and public service activities. Of particular interest are activities that deal with the Upper Cumberland region, promote interaction between various disciplines, and encourage cooperation between the community and the University.

Research is conducted in each division of the University and there are numerous opportunities for student involvement either directly on contracts and grants or on research assistantships. The University maintains an Office of Research which assists in the procurement of funds to support research.

Research Centers

The on-campus Centers are important tools in bringing together cooperating interdisciplinary research teams of faculty and students from various departments, schools and research units. Each Center strives to use present education resources to achieve excellence; to support economic development in the state; to enhance the intellectual, cultural and social climate for Tennessee citizens; to use external sources to improve research; and to attract nationally and internationally recognized faculty to Tennessee institutions.

»Appalachian Center for Craft

Through Tennessee Tech's School of Art, Craft and Design, the **Appalachian Center for Craft** promotes excellence in American craft through tradition and innovation in technique, concept and design.

» Center for Assessment and Improvement of Learning

The **Center for Assessment and Improvement of Learning** focuses on the administration of the Critical-thinking Assessment Test (CAT), which was developed to assess a broad range of skills that faculty nationwide feel are important components of critical thinking and real-world problem solving.

» Center for Energy Systems Research

The **Center for Energy Systems Research** (CESR) focuses on providing solutions to problems faced by energy producers and consumers, and research on renewable energy, smart grid power systems, power electronics, among others.

» Center for Manufacturing Research

The **Center for Manufacturing Research** (CMR) focuses on three research areas: advanced manufacturing, materials for energy storage and conversion, and networking and algorithm for big data.

» Center for the Management, Utilization & Protection of Water Resources

The **Center for the Management, Utilization & Protection of Water Resources** (Water Center) focuses on research in aggregate analysis, biodiversity and ecology, modeling analysis and simulation, water security and sustainability, and the water-energy-food-nexus.

» Cybersecurity Education, Research and Outreach Center

The **Cybersecurity Education, Research and Outreach Center (CEROC)** integrates university-wide existing activities and initiatives in cybersecurity education, research and outreach toward finding solutions to security and privacy problems in cyberspace.

» iCube

The **iCube** provides a place for students and faculty to imagine, inspire and innovate, using immersive reality technologies in a three-dimensional environment.

» iMakerSpace

The **iMakerSpace** provides interdisciplinary training, service, partnership, and opportunities in research and evaluation through innovation and entrepreneurship.

» Industrial Assessment Center

The **Tennessee 3-Star Industrial Assessment Center** located at Tennessee Tech promotes industrial energy efficiency in manufacturing through conducting no-cost, onsite energy efficiency assessments and graduating engineering students with professional skill sets and a solid background in energy and resource efficiency.

» Science, Technology, Engineering & Mathematics Center

The **Science, Technology, Engineering and Mathematics (STEM) Center** offers an innovative facility in support of a campus-wide initiative to enhance existing STEM education models and develop new educational strategies in STEM-related fields.

» Tennessee Center for Rural Innovation

The **Tennessee Center for Rural Innovation (TCRI)** was developed to create companies and build economic development through manufacturing, health care, information technology, agriculture and tourism sectors to reduce poverty levels and increase prosperity throughout these rural regions.

Student Support Services

Alumni Association

The purpose of the Alumni Association is to promote the educational, social, and economic interests of Tennessee Tech University, its alumni, faculty, friends, and current students. All former students of Tennessee Tech University who earned a degree are recognized as alumni.

The Director of Alumni Relations coordinates the activities of the Alumni Association. The work of the Association is administered through the Office of Alumni Relations in consultation with the Association's Advisory Board. The advisory board consists of alumni representatives appointed by the Director of Alumni Relations and the current Advisory Board; it also includes a delegate from the Student Alumni Ambassadors.

Center for Career Development

The Center for Career Development, located on the third floor of the Roaden University Center, provides a variety of career resources for graduate students. Advice and suggestions to maximize interviewing strategies and resume preparation are also provided. As the University's centralized recruiting facility, candidates for a graduate degree should register with the office two (2) semesters prior to their anticipated graduation date for assistance with their job search. Registration is required for students and alumni in advance of their participation in campus interview activities.

Recognizing the benefits to be gained through the use of cutting-edge technology, Career Development maintains a full-service web site at http://www.tntech.edu/career/. Students, alumni, and employers can access information about campus recruiting activities including the ability to post and obtain resumes online. Electronic links have been set up as a quick resource tool to use when searching the Internet for career resources and opportunities. Interactive videoconferencing software enables students and alumni to interview with employers worldwide.

Center for Counseling and Mental Health Wellness

The professional staff of the Center for Counseling and Mental Health Wellness work with students experiencing a wide variety of personal issues and concerns. While not limited to these issues, the well-qualified counselors can help you with difficulties in areas such as:

- adjustment to college life
- relationship problems
- feelings of inadequacy
- anxiety
- depression
- stress management
- loneliness
- suicidal ideation
- resiliency
- coping skills

The TN Tech Center for Counseling and Mental Health Wellness, located in the Roaden University Center, offers an opportunity for students to develop more effective means of resolving problems and acquiring strategies for achieving personal and professional goals. Strict confidentiality is maintained in the counseling process. Outreach and consultation services on a variety of topics of interest to students are available.

There is no fee for this service. Registered, enrolled students are eligible and may make appointments by calling the Counseling Center (931) 372-3331.

Additionally, the TN Tech Center for Counseling and Mental Health Wellness is pleased to provide TN Tech Eagle Eye Crisis Hot Line. This hotline is free, confidential, and available to TN Tech students. Students can access this hotline weekdays after 4:30 and on weekends and holidays. The hotline is accessible at 931-372-3331 or 855-206-8997.

Computer Facilities

The D. W. Mattson Computer Center is equipped with a large-scale, modern digital computer, together with peripheral equipment for the rapid input, output, and storage of information. Although the Center satisfies the general administrative, instructional, and research needs of the University, there are numerous student computer labs located throughout the campus for instructional and research purposes. Many graduate students utilize computer facilities in their research pursuits. Lab locations and hours are posted on the ITS website.

Financial Aid

Graduate assistantships constitute the primary source of financial aid for students enrolled in the graduate school. Information concerning appointment of graduate assistants is found in the section titled Organization of the College of Graduate Studies.

Students who have been admitted as regular students in a degree-seeking program may wish to complete the Free Application for Federal Student Financial Aid (FAFSA). Recipients of federal direct loans or work-study must be U.S. citizens or eligible noncitizens enrolled for at least five (5) semester hours (for federal aid purposes, halftime status is defined as enrollment for five (5) hours, three-quarter time status is defined as enrollment of six to eight (6-8) hours, and full-time is defined as enrollment of nine [9] hours). The interest on these loans is a variable amount (set by the federal government each year); interest and principal repayment may be deferred while the student is enrolled. The FAFSA is available online at www.fafsa.ed.gov.

You may also wish to review our website at www.tntech.edu/financialaid/ for further information about aid programs and procedures. In addition, you can use this site to link to the online version of the Free Application for Federal Student Aid (FAFSA).

Angelo and Jennette Volpe Library

The Angelo and Jennette Volpe Library contributes to the university's mission by providing the collections, services, and environments that lead to intellectual discovery and student success.

The library has physical and digital collections, including University Archives and Special Collections and a selective US Federal Depository. Students can learn how to search the collections from online videos or get help from a librarian. Additional library services include a citation management tool. The library hours are very user-friendly, and the building houses a wide range of technology.

Intercultural Affairs

Intercultural Affairs promotes personal, cultural, social, and academic growth and development of students from underrepresented populations and encourages opportunities for all students to engage with others across differences by way of dialogues, informal interaction, and programs in alignment with the goals of the Student Affairs Division and the Tech Tomorrow Plan. We offer academic counseling, scholarship information, the Intercultural Affairs Ambassador program, the Reaching Achievement and Committed to Excellence Peer Mentoring Program and internships to improve academic performance and professional development of our students.

The vision of the Intercultural Affairs Office is a campus where all students are able to perform, both in perception and reality, at their highest potential because of an atmosphere that invites and appreciates diversity of ethnicity.

The Office of Intercultural Affairs is located in the Leona Lusk Officer Black Cultural Center, on the second floor of the Roaden University Center 258. The center houses a computer lab, conference room, and a library of African-American authors.

Residential Life

Tennessee Tech has 15 residence halls and a 304-unit apartment complex--called Tech Village Apartments--which provides housing accommodations for enrolled students--both undergraduate and graduate.

Residence hall rooms are designed for double occupancy; however, a few single rooms are available. Rooms are furnished to include stand twin beds and mattresses, desks, chairs, dressers, telephone, closets, and smoke detectors. Additionally, all rooms have cable television and internet access. All residence halls have laundry facilities located in each building. Students may provide their own personal items to make their room more unique and comfortable.

Tech Village apartments are assigned to students in the following priority: married students, single students with child(ren), graduate students, students with disabilities, senior undergraduate students, and faculty/staff. Each apartment has a telephone, stove, refrigerator, dishwasher, smoke detector, fire extinguisher, expanded basic cable service and mini blinds. Tech Village has a laundry facility, a community center with ice machine. Your monthly rent includes expanded basic cable service, local telephone service, water service, electricity, and internet. Occupants pay for long-distance phone calls.

All residence halls are connected to ResNet. ResNet is short for Residence Hall Computer Network. Each of these residence hall rooms has a ResNet connection for each occupant, provided the student has a personal computer. Residents also have access to computer labs in designated residence hall lobbies and the Tech Village community center. Additionally, all residence halls and Tech Village students will have a voice mailbox assigned to them to be used in conjunction with their telephone service.

To secure an assignment on campus, simply complete either a residence hall or Tech Village application or by contacting the Office of Residential Life by calling (931) 372-3414 or toll free 1-800-255-8881 or online at University Housing & Residential Life. On-line deposits may be made to secure your apartment/room. Applicants for residence hall assignments will be notified by the third week of July for a fall semester assignment, the second week of December for a spring assignment and the first week of May for a summer assignment. Applicants for Tech Village assignments will be notified as apartment space is available. Tech Village applicants are not guaranteed an apartment assignment; therefore, consider researching other housing options in the event an apartment does not become available.

Services for Students requesting Accommodation

The Accessible Education Center is committed to ensuring equal access for all qualifying individuals to Tennessee Tech's academic and physical environments, and further dedicated to providing quality services to students and faculty, through a variety of resources including academic adjustments, assistive technology and software, as well as other support programs that promote awareness of the law and other disability-related topics.

Registering with the Accessible Education Center is easy. Students can register at anytime. Requests and documentation are submitted online. Official documentation of a disability is necessary to determine the level of services that may be needed. All students with disabilities or conditions are urged to come by the Accessible Education Center to discuss their educational plans and any special accommodations. The center is located in Room 112, Roaden University Center. Students may also call for an appointment at (931) 372-6119.

Campus Health Services

Tennessee Tech University has a state-of-the-art campus health center which provides medical services for minor illnesses or injuries to any student enrolled at the University on a walk-in basis during hours of operation. The health service staff includes nurses, a nurse practitioner, physician, and pharmacist who plan and implement care for students during daytime hours Monday through Friday. The only charge made to a student is for medications, treatments, supplies, or laboratory work.

The student is responsible for expenses incurred for ambulance service, calls at a local physician's office, emergency services, and other services provided at Cookeville Regional Medical Center. Health and accident insurance is available to each student upon his/her registration at Tennessee Tech. This insurance coverage is authorized and approved by the Tennessee Board of Regents. Coverage provides hospital, surgical, and in-hospital medical protection on a year-round basis beginning with the first day of fall registration and continuing until the first day of fall registration the following year. Students may enroll in the plan during registration or at any time during the year by picking up an application at the Health Services Office (Infirmary).

Two (2) plans of coverage are available at reasonable rates. Optional maternity coverage is offered under both plans. Details concerning this insurance are available at the Student Health Service and during registration. Students are encouraged to participate in one (1) of the insurance plans, as it supplements the above services offered by Campus Health Services.

Student Complaint Procedures

Students or prospective students who wish to file a complaint related to accreditation or regarding violations of state law not resolved at the institution may do so by following the Student Complaint Policy and Procedure at Student Affairs - Students Complaints (tntech.edu)

Complaints regarding accreditation can also be made by contacting the Southern Association of Colleges and Schools Commission on Colleges, 1866 Southern Lane, Decatur, GA 30033-4097, telephone: 404-679-4500 (www.sacscoc.org).

Complaints of fraud, waste or abuse may be made by email at reportfraud@tbr.edu or by calling the Tennessee Comptroller's Hotline for Fraud, Waste and Abuse at 1-800-232-5454.

Accounting Department

The Accounting Department holds separate AACSB Accounting Accreditation. Accordingly, our mission is “to graduate students characterized by a commitment to professional competence, ethical conduct, excellent communication skills, and critical thinking.” Toward that end, we strive to provide students access to advanced knowledge in the field of accounting and we emphasize the importance of life-long learning and continuing professional development.

We strive to adhere to a set of values that embraces our commitment to a standard of excellence. Those values include:

• Integrity

• Professionalism

• Diversity of Thought

• Excellence

• Team Collaboration

The purposes of the MAcc Program at TTU include delivery of: (1) strong, masters-level education that provides accounting students with advanced academic knowledge, requisite professional skills, and a relevant, high-quality pathway to the profession and associated certifications", (2) high-quality programming that facilitates students' development and growth as successful, ethical business leaders, (3) appropriate graduate-level degree programming to meet the needs of aspiring professional accountants and their prospective employers that is not currently available to TTU accounting graduates, and (4) using online and associated technologies to increase Tennesseans' access to graduate accounting education.

Programs

MACC-MAC - Accountancy, M.Acc.

Agriculture Department

The School of Agriculture offers a Master of Science in Agriscience Technology which is an interdisciplinary study of the application of scientific and technological advances to improve agricultural productivity, efficiency, and sustainability. The goals of the M.S. in Agriscience Technology are to:

· Prepare graduate students who are flexible and innovative to solve real-world problems in agriculture using the latest scientific and technological advances including precision agriculture, smart technology, data analytics, and agricultural engineering

· Prepare graduate students who are able to analyze and develop integrated farming practices from the perspective of economics

· Prepare graduate students for teaching, research, technology transfer, leadership, and other positions in agriculture.

The curriculum for the M.S. in Agriscience Technology emphasizes sustainable agriculture, environmental policy and issues in agriculture, and smart and digital farming technology in a broad context of agriculture.

· Thesis option – 24 credit hours of coursework and 6 credit hours of thesis research

· Non-thesis option – 33 credit hours of coursework.

Coursework includes core and electives and will be a combination of online and on-ground instructions depending on the nature of the course content.

Programs

AGST-MS - Agriscience Technology, M.S.

Biology Department

The purpose of the Master of Science degree program in the Department of Biology is to prepare graduates for high-level careers in various areas of biology. The department offers the M.S. degree with the option of selecting from a variety of thesis research topics based on individual research interests of the faculty.

The PhD Program in Integrative Biology provides comprehensive training across fundamental biological disciplines, including cellular and molecular biology, physiology, ecology, evolution, conservation biology, and environmental science.

Programs

BIOL-MS - Biology, M.S.
IBIO-PHD - Integrative Biology, Ph.D.

Business Department

The Tennessee Tech MBA is a fully online, 33-credit hour program accredited by AACSB International—the highest level of business school accreditation attainable worldwide. Designed with working professionals in mind, the program offers maximum flexibility: complete your degree in as little as one year or progress at your own pace.

Students may choose a general MBA or specialize by earning a graduate certificate in a high-demand field such as Banking and Financial Services, Cybersecurity Management and Analytics, or Healthcare Informatics—all within the same 33-hour framework (36 hours for non-business majors pursuing a certificate). The curriculum blends foundational business knowledge with real-world application through engaging coursework in areas such as strategy, leadership, analytics, marketing, and finance.

Tennessee Tech's MBA emphasizes practical relevance through interactive learning, team-based projects, and global experiences—preparing graduates to lead in today's dynamic, data-driven business environment.

Programs

AGBU-CER - Agribusiness Certificate, M.B.A.
BFS-CER - Banking and Financial Services Certificate, M.B.A.
CMA-CER - Cyber Management and Analytics Certificate, M.B.A.
HCI-CER - Healthcare Informatics Certificate, M.B.A.
MBA-MBA - Business Administration, M.B.A.

Chemical Engineering Department

The Master of Science degree program in the Department of Chemical Engineering is available to individuals who have completed a BS degree in Chemical Engineering or a closely allied field. The MS program's technical content and research component prepares the individual to enter the profession with advanced engineering skills.

Graduate students pursuing the MS degree develop a program of study tailored to their objectives and complete a master's thesis. Research topics in the areas of electric field-based processes and systems, biological engineering processes and systems, molecularly-based engineered materials and interfacial systems, and computational mathematics are among those available.

The faculty of the Department of Chemical Engineering actively participates in the Doctor of Philosophy program in Engineering. Admission to the doctoral program is open to individuals with outstanding academic records and potential for original research. The departmental faculty and graduate students work cooperatively with the three State funded Centers of Excellence: two within the College of Engineering and one under the Office of Research & Economic Development.

The Department of Chemical Engineering offers a 13 credit-hour graduate certificate in the area of Cultural and Interdisciplinary Training at the Food-Energy-Water Nexus. This certificate program is designed to increase the cultural awareness and interdisciplinary training of holistic professionals working in a wide array of academic, governmental, social, and industrial settings. Students may earn this certificate as a part of an approved M.S. or Ph.D. program.

Programs

CHE-MS - Chemical Engineering, M.S.
ENGR-DCHE - Engineering, Chemical Engineering Concentration, Ph.D.
FEW-CER - Interdisciplinary Training at the Food-Energy-Water (FEW) Nexus Certificate

Chemistry Department

The Department of Chemistry offers a program of study leading to an M.S. in Chemistry designed to prepare graduates for a successful career in industry or to continue their education in a doctoral program or professional school. By offering courses in the five (5) major areas of chemistry, the students have an opportunity to reinforce their background and expand their knowledge in areas not covered by their undergraduate degree. The faculty maintains a wide variety of research programs, which gives each student a chance to conduct, evaluate, and report on original research. A low student-to-faculty ratio allows for individual attention and produces a stimulating intellectual atmosphere conducive to learning.

Fast-Track M.S. Program

The Fast-Track M.S. Chemistry program is designed for chemistry majors in the A.C.S.-certified concentration, enabling them to earn the M.S. degree in Chemistry by staying at Tech one (1) additional academic year and two (2) summers. A senior who opts for the fast-track program will take nine (9) hours graduate coursework as a senior. These hours can include either 4000/5000 dually-listed chemistry courses taken at the 5000-level OR can include 6000-level chemistry and 7000-level environmental science courses. Up to six (6) hours of this graduate coursework, exclusive of directed study, taken during the student's senior year can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum for senior CHEM electives. The admission requirements are:

1. Subject to approval by the chair and the chemistry graduate committee
2. Overall GPA = 2.8 or above, 3.0 or above in upper-division chemistry courses
3. Application allowed once Junior Standing is earned
4. Can begin Fast-Track Program as a Senior
5. Final B.S. must include a minimum of:

• two (2) semesters of calculus
• two (2) semesters each of general, organic, and physical chemistry
• one (1) semester each of analytical chemistry and biochemistry.

Entrance to the Fast-Track program can be granted if the student has met requirements 1 and 2 above.

Tennessee Tech seniors who do not fully qualify for the Fast-Track program but who plan to seek an M.S. Chemistry degree at Tennessee Tech University may take up to nine (9) graduate-level coursework hours as a senior. Subject to instructor approval, these hours can include either 4000/5000 dually-listed chemistry courses taken at the 5000-level OR can include 6000-level 60 chemistry and 7000-level environmental science courses. Up to six (6) hours of this graduate coursework taken during the student's senior year can be used to satisfy both undergraduate and graduate degree requirements.

Programs

CHEM-MS - Chemistry, M.S.

Civil and Environmental Engr Department

The Department of Civil and Environmental Engineering offers advanced studies leading to the Master of Science degree in Civil Engineering and the Doctor of Philosophy degree in Engineering with specialization in Civil Engineering. The goals of the Ph.D. program are listed under the College of Engineering and administered by the Associate Dean of Engineering for Graduate Studies and Research. The goal of the MS program is to provide the strong academic programs necessary to prepare students to become educated members of society who can join and make significant contributions to the civil engineering profession.

This is accomplished by allowing MS graduate students to specialize in specific engineering topics through advanced and in-depth studies in these topics; by providing guidance to students in fundamental and applied research; by helping them to develop powers of analysis, synthesis and critical thinking; and by preparing outstanding graduate students to continue academic and research careers through doctoral-level studies.

The department offers the Master of Science Degree in Civil Engineering with concentrations in environmental engineering, structural engineering, and transportation engineering. The departmental faculty have expertise and conduct research in the following areas: environmental and water resources engineering; structural engineering, transportation and paving materials; engineering mechanics; and computational mechanics. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Many departmental faculty actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Programs

CE-MS - Civil Engineering, M.S.
ENGR-DCE - Engineering, Civil Engineering Concentration, Ph.D.

College of Arts and Sciences Department

The College of Arts and Sciences offers a Master of Arts degree in English and a Master of Science degree in Biology, Chemistry, or Mathematics. A new Master of Social Work will begin in Fall 2027. Students who have adequate academic qualifications may pursue collateral study in such areas as geology, certain foreign languages, history, journalism, and sociology.

Specializations exist in each of the major areas of study, with course selection made according to a student's undergraduate background and proposed graduate research.

The program of study for a master's degree normally requires the completion of a minimum of 30 semester hours of graduate credit, including the research and writing of a thesis; however, prerequisite courses or collateral study may expand program requirements.

Graduate assistantships are available in each of the departments offering graduate degrees. Specific information concerning assistantships and degree requirements for the master's degrees may be obtained from the respective departments.

Communication & Media Department

The department of Communication and Media offers two concentrations within the Master of Professional Studies program: Corporate Communication and Media and Strategic Communications.

Computer Science Department

The Department of Computer Science offers a Master of Science in Computer Science (MSCS) and a Doctorate in Computer Science (PhD).

The MSCS is available to students in the form of three options: *thesis, project, and coursework-only*. Those who select the thesis option take 6 credit hours of research in addition to 24 hours of approved graduate coursework. Students taking the project option take 6 credit hours of project work in addition to 24 hours of approved graduate coursework, and students in the coursework-only option take 3 credit hours of independent study in addition to th3 27 hours of approved graduate coursework.

The purpose of the PhD Program is to provide students with an opportunity for advanced studies and research in the field of Computer Science. As a research-based degree, the focus is on developing the independent learning skills of students in preparation for advanced- level, research-focused employment in industry or academia.

The faculty are active in a wide variety of research areas, and interested students should refer to the departmental website for specific details. The mission of the CS department, consistent with the mission of the University and the College of Engineering, is

To be widely recognized for enabling students to have global impact through innovative, quality programs and research that emphasizes collaborative partnerships and the success of a diverse student, faculty, and alumni community.

Programs

CSC-MS - Computer Science - M.S.
CSC-PHD - Computer Science, Ph.D.

Cooperative Education Department

Cooperative Education is a voluntary, independent education program available for all undergraduate and graduate students in any academic area. Work experience is gained with an employer who offers learning opportunities related to a student's academic discipline. The program provides careful supervision with timely evaluation of performance, attitude, and ability of the student on the job. The goal is to help students grow and improve through hands-on experience.

The co-op program allows students to obtain on-the-job learning experiences and apply classroom concepts in the field. It can provide a realistic understanding of career choice, along with the opportunity to earn an income to aid with college expenses.

Counseling and Psychology Department

A primary purpose of the department is to offer strong academic programs in the preparation for a career in counseling and psychology. Graduate programs are offered at the Master of Arts, Specialist in Education, and Ph.D. levels. The MA and EdS in Counseling and Psychology offer a number of concentrations available in each of these programs. The degree programs in Counseling and Psychology each consist of a counseling concentration, appropriate cognate area, and a research component. Concentrations are available in:

- Psychology
- Clinical Mental Health Counseling (Master's level only)
- School Counseling
- School Psychology

The department also offers a Ph.D. in Counseling and Supervision.

Fast Track Program

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework in Counseling and Psychology while still pursuing their undergraduate degree and to transition to the Counseling and Psychology graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University. The minimum admission requirements for participating in the C&P Fast Track Program are:

• Enrolled as a Tennessee Tech undergraduate Psychology major with senior standing.

• Overall GPA of at least 3.0 or better.

• Approval from the student's undergraduate advisor and two other upper division psychology faculty at TTU who have been the student's instructor for at least one course at TTU.

• Course approval from C&P graduate faculty or graduate faculty advisor.

• All requirements for full admission to Graduate School must be met upon graduation. Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

Programs

COSU-PHD - Counseling and Supervision, Ph.D.
CP-CMHC - Counseling and Psychology, Clinical Mental Health Counseling Concentration, Ed.S.
CP-CMHC - Counseling and Psychology, Clinical Mental Health Counseling Concentration, M.A.
CP-EDSC - Counseling and Psychology, School Counseling Concentration, M.A.
CP-ESSC - Counseling and Psychology, School Counseling Concentration, Ed.S.
CP-PSYC - Counseling and Psychology, Psychology Concentration, M.A.
CP-SPY - Counseling and Psychology, School Psychology Concentration, M.A.
CP-SSPY - Counseling and Psychology, School Psychology Concentration, Ed.S.

Curriculum and Instruction Department

The department of Curriculum and Instruction offers graduate degrees at the master, specialist, and doctoral level. Each degree program offers a variety of concentration areas and licensure opportunities.

Curriculum and Instruction BS/MA Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Special Computer Science Education Transfer Credit

Participants in the Computer Science Endorsement Pathway (CSEP) from the TN Department of Education and Tennessee STEM Innovation Network (TSIN) may, upon approval from the Department of Curriculum & Instruction, substitute six hours of Computer Science Education (CSED) course credit towards a graduate degree in Curriculum and Instruction or a Certificate within the department.

See General Degree Requirements section in the catalog for general transfer credit information.

Programs

ABA-MA - Applied Behavior Analysis, M.A.
CI-ABAS - Curriculum and Instruction, Applied Behavior Analysis Concentration, Ed.S.
CI-EDCU - Curriculum and Instruction, Curriculum Concentration, M.A.
CI-EDEC - Curriculum and Instruction, Early Childhood Education Concentration, M.A.
CI-ESCI - Curriculum and Instruction, Exercise Science Concentration, Ed.S.
CI-ESCU - Curriculum and Instruction, Curriculum Concentration, Ed.S.
CI-ESEC - Curriculum and Instruction, Early Childhood Education Concentration, Ed.S.
CI-ESEL - Curriculum and Instruction, Elementary Education Concentration, Ed.S.
CI-ESSE - Curriculum and Instruction, Secondary Education Concentration, Ed.S.
CI-ESTE - Curriculum and Instruction, Educational Technology Concentration, Ed.S.
CI-LIT-EDS - Curriculum and Instruction, Literacy Concentration, Ed.S.
CI-LIT-MA - Curriculum and Instruction, Literacy Concentration, M.A.
CI-LSC - Curriculum and Instruction, Library Science Concentration, Ed.S.
CI-LSCI - Curriculum and Instruction, Library Science Concentration, M.A.
CI-SPED - Curriculum and Instruction, Special Education Concentration, M.A.
CI-SPES - Curriculum and Instruction, Special Education Concentration, Ed.S.
CI-STE - Curriculum and Instruction, STEM Education Concentration, Ed.S.

CI-STEM - Curriculum and Instruction, STEM Education Concentration, M.A.
CSED-CER - Computer Science Education Certificate, Curriculum and Instruction
EDEL-MA - Elementary Education, M.A.
EDIL-MA - Instructional Leadership, M.A.
EDSE-MA - Secondary Education, M.A.
EDU-ABA - Exceptional Learning, Applied Behavior Analysis Concentration, Ph.D.
EDU-HBWE - Exceptional Learning, Health Behavior and Wellness Education Concentration, Ph.D.
EDU-LIT - Exceptional Learning, Critical Discourse and Literacy Studies, Ph.D.
EDU-PPLE - Exceptional Learning, Program Planning and Evaluation Concentration, Ph.D.
EDU-STEM - Exceptional Learning, STEM Education Concentration, Ph.D.
ESIL-EDS - Instructional Leadership, Ed.S.
HRED-PHD - Higher Education, Ph.D.
ID-CER - Instructional Design
LDT-MA - Learning Design and Technology, M.A.
SRV2-CER - Students Engaging, Responding, Volunteering, & Impacting Communities Everywhere (SERVICE) Certificate

Decision Science/Management Department

The Tennessee Tech MBA is fully accredited by AACSB International–the highest attainable level of accreditation. The MBA degree may be obtained completely online or through a combined online/on-campus program of study.

The MBA program offers the option for 100% online completion, in as little as one year. The online learning environment is highly interactive and incorporates case discussions, teamwork, simulations, and other active-learning approaches. MBA courses make a strong connection between academic subjects and the practical issues facing managers in today's globally competitive, high tech, and analytically-focused business environment.

Earth Sciences Department

No graduate degree is offered in Earth Sciences, but courses may be used (with advisory committee approval) as electives in other fields of study.

Students majoring in Earth Sciences may "FastTrack" into the Professional Science Master's in Environmental Informatics program.

Economics/Finance/Marketing Department

The Department of Economics, Finance, and Marketing is part of the College of Business and is involved with the Master of Business Administration (MBA) program.

The Tennessee Tech MBA is a fully online, 33-credit hour program accredited by AACSB International—the highest level of business school accreditation attainable worldwide. Designed with working professionals in mind, the program offers maximum flexibility: complete your degree in as little as one year or progress at your own pace.

Students may choose a general MBA or specialize by earning a graduate certificate in a high-demand field such as Banking and Financial Services, Cybersecurity Management and Analytics, or Healthcare Informatics—all within the same 33-hour framework (36 hours for non-business majors pursuing a certificate). The curriculum blends foundational business knowledge with real-world application through engaging coursework in areas such as strategy, leadership, analytics, marketing, and finance.

Tennessee Tech's MBA emphasizes practical relevance through interactive learning, team-based projects, and global experiences—preparing graduates to lead in today's dynamic, data-driven business environment.

Electrical and Computer Engr Department

The Department of Electrical and Computer Engineering offers advanced studies leading to the Master of Science degree in Electrical and Computer Engineering and the Doctor of Philosophy degree in Engineering with specialization in Electrical and Computer Engineering. The Ph.D. program is administered by the Associate Dean of Research and Innovation. The goals and the admission and degree requirements for the Ph.D. program are listed under the College of Engineering. The goals of the MS program are to prepare graduates with advanced engineering and research skills and state-of-the-art knowledge in selected areas for positions in industry and for advanced studies towards the Ph.D. The MS-ECE degree program can be pursued with either a thesis option or a non-thesis option.

The departmental faculty have expertise in the following areas of electrical engineering: circuits and signal processing; control, robotics and instrumentation, digital systems, computers, and VLSI circuit design; nuclear engineering; physical phenomenon and lasers; electric power; and telecommunications, wireless communications and networking. Graduate students may carry out their research for their thesis/dissertation in any one (1) of the above areas under the supervision of a faculty member having expertise in that area. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis/dissertation research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Many departmental faculty members actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Programs

ECE-MS - Electrical and Computer Engineering, M.S.
ENGR-ECE - Engineering, Electrical and Computer Engineering Concentration, Ph.D.

English Department

The Master of Arts degree program in the Department of English prepares graduates for success in any further graduate and professional education that might require superior analytical and communication skills, as well as for careers outside the academic world wherever superior analytical and communication skills and knowledge of literary and cultural traditions are essential. Our English M.A. also provides superb grounding for seeking a Ph.D. in English by increasing students' knowledge of literary history and improving their skills in writing, literary analysis, and research. Graduates can also become effective high-school or college-level teachers by improving their knowledge of writing pedagogy and theory.

Concentrations

The Literature concentration engages traditional chronological periods of British and American literature alongside a wide variety of additional course offerings. Flexible plans of study provide opportunities to focus on conventional literary-historical areas as well as far-reaching critical and theoretical fields. Our courses help students pose and investigate problems in the advanced study of literature in English, and also provide a strong foundation for those students seeking to pursue a Ph.D. in literature or related fields. Students analyze texts, identify relevant contexts, and communicate complex ideas in a clear, artful manner. Additionally, by developing students' written and oral communication skills, research abilities, and analytical prowess, this concentration establishes core competencies required for work in many fields.

We offer both a thesis and portfolio option for the Literature M.A.

The M.A. concentration in Creative Writing helps students develop their writing as poets, fiction writers, and creative essayists beyond skills developed at the undergraduate level. Students in this concentration may be looking to develop their talents to the point where they can gain entrance to a prestigious M.F.A. or Ph.D. program in Creative Writing. They may be seeking space to study writing in the context of graduate literary study in English, working with professors who are themselves published authors. They may be refining their writing with the goal of publication, or just creating work of publication quality and honing their craft. We offer advanced courses in Poetry and Prose Writing with very small enrollment, facilitating one-on-one work with our creative writing faculty, as well as workshops where graduate students learn not just from professors but from fellow student writers, participating in the conversations that help build nuanced skills as creative artists.

We offer the thesis option for the Creative Writing M.A.

The Professional and Technical Communication (PTC) concentration provides graduate students with a strong theoretical background to pursue research in workplace writing and communication, as well as practical expertise in analyzing, creating, and revising genres in technical writing fields. The concentration provides additional education and training for students who are preparing for careers within the field of PTC, including the fields of Engineering, Business, Nursing, and Law that require facility with technical and scientific communication skills in business environments. Graduate students whose primary major is in the sciences would also benefit from the complementary communication and research strategies learned. Students seeking to pursue a Ph.D. will find this M.A. concentration to be a useful foundation.

We offer the portfolio option for the PTC M.A.

Fast Track

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University. (Students who reach the number of credits required for their undergraduate degrees can also take additional courses for graduate credit before graduation, thus potentially accelerating their M.A. program even more.) To find out more visit the concentration pages under Programs..

Programs

ENG-CW - English, Creative Writing Concentration, M.A.
ENG-LITT - English, Literature Concentration, M.A.
ENG-PTC - English, Professional and Technical Communication Concentration, M.A.

Environmental Studies Department

Environmental Sciences, Ph.D.

The Doctor of Philosophy degree program in Environmental Sciences offers concentrations in biology, chemistry, agriculture, geosciences, and integrated research but emphasizes the solution of complex environmental problems using an interdisciplinary approach. Course work is required in biology, chemistry, geology, agriculture, and sociology. This interdisciplinary approach insures that students become aware of a wide range of environmental concerns and that their research includes a breadth of environmental understanding beyond the boundaries of a particular discipline. The goal of the program is to prepare students for careers in research, management, government service, teaching, and other areas where they can make productive contributions to the solution of environmental problems.

The program of study for a doctoral degree requires a minimum of 61 semester credits beyond the bachelor's level, including 13 credits in "core courses," 12 credits at the 7000 level, and at least 18 credits in doctoral research and dissertation. Graduate assistantships are available.

Professional Science Master's, P.S.M.

The Professional Science Master's (PSM) degree is a unique professional degree grounded in natural science, technology, engineering, mathematics and/or computational sciences and is designed to prepare students for direct entry into a variety of career options in industry, business, government, or non-profit organizations. It is a distinctive advanced degree for those intending to pursue a career in the practice of science. PSM programs prepare graduates for high-level careers in science that have a strong emphasis on such skill areas as management, policy, and entrepreneurship. PSM recognition provides assurance that the program conforms to nationally accepted criteria.

Programs

ENV-AGRI - Environmental Sciences, Agriculture Concentration, Ph.D.
ENV-BIOL - Environmental Sciences, Biology Concentration, Ph.D.
ENV-CHEM - Environmental Sciences, Chemistry Concentration, Ph.D.
ENV-GEOS - Environmental Sciences, Geosciences Concentration, Ph.D.
ENV-IR - Environmental Sciences, Integrated Research, Ph.D.
MGEI-CER - Managerial Environmental Informatics Certificate, Environmental Studies

PSM-ENIN - Professional Science, Environmental Informatics Concentration, P.S.M.
PSM-ESC - Professional Science, Environmental Science Concentration, P.S.M.
PSM-ESU - Professional Science, Environmental Sustainability Concentration, P.S.M.
TENI-CER - Technical Environmental Informatics Certificate, Environmental Studies

Exercise Science Department

The department offers an online Master of Arts degree in Exercise Science with areas of concentration in elementary/middle school physical education, fitness and lifetime wellness, adapted physical education, and sport management. Additionally, candidates may choose to take 20 directed hours in conjunction with the elementary/middle school concentration in pursuit of a Tennessee teaching license in k-12 physical education and health. The elementary/middle school concentration and the teacher licensure program are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Field experience, internships and practicum work can be performed at the student's location and monitored through the online platform.

The following are brief descriptions of each of the concentrations:

- **Adapted Physical Education** - Typically, this concentration provides current practitioners with coursework, theory and practice to effectively lead physical education programs for individuals with special needs.
- **Elementary and Middle School Physical Education** - This concentration is designed for students who have a current Tennessee teaching license who either want to enhance their pedagogical knowledge and/or gain background knowledge in physical education in preparation to sit for the physical education PRAXIS exam in seeking the physical education endorsement on the Tennessee teaching license.
- **Lifetime Wellness** - Students who are interested in health, wellness and/or performance aspects of physical activity and training will be interested in this concentration. The main focus is on practical application rather than clinical rehabilitation.
- **Sport Management** - Anyone wanting to work as an administrator in various positions within the sports industry will be interested in this concentration.
- **Teacher Licensure Option** - Students who wish to pursue obtaining an initial Tennessee teaching license in physical education and health will declare elementary and middle school physical education in the Master of Arts program but must also consult with the Office of Teacher Education for admission to the teacher education program and complete an additional 20 hours of directed coursework. Any candidate wanting to pursue the teaching license must communicate directly with the Office of Teacher Education during the first semester as a Master of Arts student to be on track for timely completion of the teacher licensure option.

Fast Track

The Fast Track program is designed to enable TN Tech College of Education and Human Sciences undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University. To find out more including admissions requirements, visit the concentration program page.

Programs

EXSC-ADPE - Exercise Science, Adapted Physical Education Concentration, M.A.
EXSC-EMPE - Exercise Science, Elementary & Middle School Physical Education Concentration, M.A.
EXSC-LW - Exercise Science, Lifetime Wellness Concentration, M.A.
EXSC-SPMT - Exercise Science, Sport Management Concentration, M.A.

Foreign Languages Department

No degree is offered in Foreign Languages but courses may be used (with advisory committee approval) as electives in other fields of study.

Gen. & Industrial Engineering Department

The General and Industrial Engineering department is the home to the Master of Science in Engineering Management degree.

The Master of Science in Engineering Management (MSEM) is a 100% online program offered by the College of Engineering with support from the College of Business. The degree is designed to provide early-career engineering and related technical professionals with leadership and management knowledge, skills, and tools for advancing their job performance and the performance of the organizations that employ them. The focus of the program is on the management of technology-based projects and technical people and organizations, and the goal is to combine the application of business theory with the best practices in engineering. The program content is applicable to technical professionals in state and federal agencies, small businesses, and large corporations.

Academic components of the program include the applicable and appropriate use of a variety of quantitative tools for decision making, the effective supervision of organizational personnel, and project and process management, including but not limited to risk management, resource allocation, and systems engineering. Courses will be taught by expert faculty in both related fields.

History Department

No degree is offered in History but courses may be used (with advisory committee approval) as electives in other fields of study.

Unless otherwise noted, the courses listed have the prerequisite of 6 semester hours of history or consent of instructor.

Human Ecology Department

The School of Human Ecology offers two graduate programs, a Master of Science in Community Health and Nutrition and a Master of Science in Child Life.

The M.S. in Community Health and Nutrition provides graduate course work to two audiences: (1) credentialed Registered Dietitians who seek a M.S. degree only and (2) students who seek both credentialing as a Registered Dietitian/Nutritionist (Graduate Program) and the M.S. Degree. The M.S. degree only in Community Health and Nutrition is a 30-hour degree program. The M.S. degree plus GP program requires an additional 12 credit hours in experiential learning practicum courses. Each practicum course requires approximately 162 hours of experiential learning. In addition, approximately 30 hours of experiential learning is integrated into each didactic online course.

The Master of Science in Child Life degree program is designed for candidates pursuing careers applying evidence-based research knowledge to clinical child life practice for positive patient outcomes and patient experiences. This master's degree is a practitioner's degree to provide advanced content knowledge in child life clinical practice, psychosocial care of children and families, and evidence-based practice to credentialed CCLS professionals seeking a graduate degree for employment enhancement, bachelor's prepared individuals seeking child life academic preparation for child life professional certification eligibility, and undergraduate human development and family science students seeking child life academic preparation for professional child life certification eligibility. The degree only option is 36 credits. For students who wish to pursue the Child Life Certification, an additional 12 credits of Experiential Learning courses are required for a total of 48 credits.

Programs

CHL-MS - Child Life
CHN-MS - Community Health and Nutrition, M.S.

Mathematics Department

The Department of Mathematics offers a comprehensive program leading to a Master of Science degree in Mathematics. The program of study provides suitable preparation for further study at the doctoral level or for a career in teaching, government, or industry. The moderate size of the program encourages faculty-student interaction and allows the student an opportunity to tailor a program of study based on individual background, interest, and goals. Graduate students attend a weekly Graduate Seminar and develop teaching skills through participation in the weekly Teaching Seminar. For more information, please contact the Mathematics Department at (931) 372-3441, or visit the departmental web page at Mathematics.

Programs

MATH-MS - Mathematics, M.S.

Mechanical & Nuclear Engr. Department

The Mechanical and Nuclear Engineering Department offers courses and research projects leading to the Master of Science Degree in Mechanical Engineering and enthusiastically participates in the Doctor of Philosophy Degree offered in the College for those doctoral students focusing their work in the mechanical engineering area. The MS program is administered by the Department and the Ph.D. program is administered by the Associate Dean of Engineering for Graduate Studies and Research. Both degrees are research-oriented.

Participation in graduate education is consistent with the Mechanical and Nuclear Engineering Department's goals and objectives which are:

- to provide quality instructional programs and research experiences in mechanical engineering subjects that are at a level of sophistication compatible with professional norms;
- to maintain a competent, dynamic faculty, expert in the various facets of mechanical engineering that strive to motivate the student and that practices effective educational techniques;
- and to provide instructional and research facilities, equipped with up-to-date apparatus, which are conducive to the education of mechanical engineering graduate students.

A graduate student may customize his/her graduate courses in one of several areas subject to the approval of his/her graduate advisory committee. Areas of specialty include energy systems (including alternate and renewable), robotics and intelligent systems, solid mechanics and materials, thermal fluid science, vehicle systems (including hybrid and autonomous), vibrations/acoustics/dynamics and control, and advanced manufacturing. Graduate course offerings are offered each semester to meet the needs of the graduate students. Graduate students may carry out their research for their thesis/dissertation in any one of the aforementioned areas under the supervision of a faculty member, having expertise in that area, who is also a member of the graduate faculty. Individual programs of study are developed for each student depending on his/her career goals and thesis research interest. Thesis, non-thesis and on-line non-thesis programs are offered to meet the needs of our students.

Faculty advisors assist graduate students in the development of their individual programs of study depending on their career goals and thesis/dissertation interests. The advisor chairs the student's advisory committee. The student's advisory committee guides the student through degree progression and is responsible for monitoring the student's work to complete the degree requirement.

The research and graduate education within the College are enhanced by four Centers of Excellence: the Center for Energy Systems Research (CESR); the Center for Manufacturing Research (CMR); Cybersecurity Education, Research and Outreach Center (CEROC); and the Center for the Management, Utilization, and Protection of Water Resources (WC). The Mechanical and Nuclear Engineering Department is highly involved with the first two. Faculty actively interact with the Power and Manufacturing Centers in seeking external funding for research. The Centers complement the faculty efforts by supporting graduate students and via administrative support. The interaction involves a strengthening through sharing of resources and personnel.

Programs

ENGR-DME - Engineering, Mechanical Engineering Concentration, Ph.D.
ME-MS - Mechanical Engineering, M.S.

Music Department

No degree is offered in Music but courses may be used (with advisory committee approval) as electives in other fields of study.

Nursing Department

The Whitson Hester School of Nursing offers the Master of Science in Nursing Degree (MSN), Post certification programs, and the Doctor of Nursing Practice Degree (DNP) which is a joint program between TTU and ETSU.

The Master of Science in Nursing Degree (MSN) is delivered following the standard protocol established for the delivery of online courses and programs. This program will prepare nurses to:

- Teach in a variety of academic and practice settings;
- Provide advanced nursing care to rural, urban, and underserved populations;
- Practice in collaborative and interdisciplinary relationships;
- Assume positions of leadership in the health care delivery system;
- Contribute to the current and evolving body of nursing science; and
- Continue study at the doctoral level.

The purposes of the MSN Program are:

- To increase access to graduate nursing education, especially for those nurses aspiring to teach in entry level nursing programs, manage professional practice work settings, and practice as advanced clinicians in a changing health care delivery system.
- To maximize the effective use of technology for delivery of graduate-level instruction. Distance delivery through the use of technology will increase access to graduate education, especially in remote areas of the state and for practicing nurses for whom time flexibility is a critical resource.
- To provide student access to web-based courses and degree programs. Web-based courses will reach populations not currently enrolled in graduate education, and will also permit students who are currently enrolled in on-campus courses to take additional courses, thus completing their programs sooner.

Programs

AGAN-CER - Nursing, Post Graduate Certificate Adult Geriatric Acute Care Nurse Practitioner
FNP-CER - Nursing, Post Graduate Certificate, Family Nurse Practitioner (FNP)
NEDU-CER - Nursing, Post Graduate Certificate for Nursing Education
NUNP-AGNP - Nursing Practice, Adult-Gerontology Acute Care Nurse Practitioner Concentration, DNP (TTU-ETSU)
NUNP-FNP - Nursing Practice, Family Nurse Practitioner Concentration, DNP (TTU-ETSU)
NUNP-NHL - Nursing Practice, Nursing and Healthcare Leadership Concentration, DNP (TTU-ETSU)
NUNP-PMNP - Nursing Practice, Psychiatric/Mental Health Nurse Practitioner Concentration, DNP (TTU-ETSU)
NUNP-PNPP - Nursing Practice, Pediatric Nurse Practitioner-Primary Care Concentration, DNP (TTU-ETSU)
NUNP-WHNP - Nursing Practice, Women's Health Care Nurse Practitioner Concentration, DNP (TTU-ETSU)
NURS-AGAC - Nursing, Adult Geriatric Acute Care Nurse Practitioner Concentration, M.S.N.
NURS-NUAD - Nursing, Nursing Administration Concentration, M.S.N.
NURS-NUED - Nursing, Nursing Education Concentration, M.S.N.
NURS-NUFP - Nursing, Family Nurse Practitioner Concentration, M.S.N.
NURS-PMHN - Nursing, Psychiatric/Mental Health Nurse Practitioner Concentration, M.S.N.
PMNC-CER - Nursing, Post Graduate Certificate for Psychiatric Mental Health Nurse Practitioner
PNP-CER - Nursing, Post Graduate Certificate, Pediatric Nurse Practitioner
WHCNP-CER - Nursing, Post Graduate Certificate, Women's Health Nurse Practitioner

Physics Department

No graduate degree is offered in Physics but courses may be used (with advisory committee approval) as electives in other fields of study.

Professional Studies Department

The Master of Professional Studies (MPS) – This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas:

Corporate Communication — prepares you to excel in the fast-paced professional environment that surrounds the communication field. This program strengthens the corporate leader in developing organizational and interpersonal communication skills and leadership skills.

Healthcare Administration—provides the healthcare professional with leadership and strategic management tools to lead and serve one of the nation’s largest service industries. The focus of the program is to provide the healthcare professional with the opportunity to develop important skills in healthcare, leadership, finance, informatics, research and administration in the various components of healthcare delivery systems that include hospitals, nursing homes, group medical practices, personal care homes, retirement centers, health maintenance organizations, medical sales, and insurance companies.

Human Resources Leadership — prepares you for a leadership role in the area of human resources. The interdisciplinary approach is appropriate because of the many skills and knowledge areas that are needed for success in this field.

Integrated Leadership — prepares you to lead in today's rapidly changing professional environment. The interdisciplinary approach focuses on the areas of leadership, communication, strategic planning and assessment, organizational structure and research/data analysis.

Media and Strategic Communication — prepares you to lead in the exciting field are of media and communication. The professional will acquire skills in the area of event planning and promotion, public relations, marketing, and other key communication areas.

Project Management for the Professional - prepares you to meet the growing demands for project management with courses grounded in the methodologies, strategies, skills, and tactics critical for success. The program is a combination of theory and practice and accepts students from a variety of backgrounds providing professionals the opportunity to transition from one career to another.

Public Safety — provides the public safety professional with leadership and strategic management tools to lead and serve in one of the nation's growing professions.

Strategic Leadership — prepares you to lead in today's rapidly changing professional environment. The interdisciplinary approach focuses on the areas of leadership, communication, strategic planning and assessment, organizational structure and research/data analysis.

Teaching English to Speakers of Other Languages (TESOL) — prepares you to meet an ongoing demand for both initial preparation and continuing education for individuals who plan to teach or a currently teaching English as a second/foreign language in various educational settings.

Training and Development — equips leaders for the growing and evolving field of workplace learning and performance. The program will prepare you to manage, deliver and assess on-site performance-based training, instructional design, and address the needs of human resource managers and other professionals who are increasingly relying on technology to deliver workforce education.

In addition, the MPS program offers a 12 hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone en route to their degree.

Programs

HCI2-CER - Healthcare Informatics Certificate, M.P.S.
HRL-CER - Human Resource Leadership Certificate, M.P.S.
MPS-CCOM - Professional Studies, Corporate Communication Concentration, M.P.S.
MPS-HCA - Professional Studies, Healthcare Administration Concentration, M.P.S.
MPS-HRL - Professional Studies, Human Resources Leadership Concentration, M.P.S
MPS-IL - Professional Studies, Integrated Leadership Concentration, M.P.S.
MPS-MSCO - Professional Studies, Media and Strategic Communication Concentration, M.P.S.
MPS-PMP - Professional Studies, Project Management for the Professional Concentration, M.P.S.
MPS-PS - Professional Studies, Public Safety Concentration, M.P.S.
MPS-SL - Professional Studies, Strategic Leadership Concentration, M.P.S.
MPS-TD - Professional Studies, Training and Development Concentration, M.P.S.
MPS-TESL - Professional Studies, Teaching English to Speakers of Other Languages (TESOL) Concentration, M.P.S.
PMP-CER - Project Management for the Professional Certificate, M.P.S.
PS-CER - Public Safety Certificate, M.P.S.
SL-CER - Strategic Leadership Certificate, M.P.S.
TD-CER - Training and Development Certificate, M.P.S.
TESL-CER - Teaching English to Speakers of Other Languages Certificate, M.P.S.

School of Art, Craft & Design Department

Although a graduate degree is not available in the School of Art, Craft & Design, certain senior-level courses have been so designed as to generate graduate credit and these courses are dually listed as 4000 (5000). A student must register for the 5000-level course in order to get graduate credit and additional assignments will be required.

Sociology and Pol Science Department

New for Fall 2027!

The Department of Sociology and Political Science will offer a Master of Social Work (MSW) program. The program will prepare students for advanced, ethical, and culturally responsive practice across micro, mezzo, and macro levels of social work. Grounded in the values of social justice, service, and evidence-based practice, the program equips graduates with the knowledge and skills to engage in clinical work with individuals and families, facilitate change within groups and organizations, and advocate for systemic reform in communities and policy arenas. The curriculum is designed to meet all standards set by the Council on Social Work Education (CSWE), preparing students for licensure and professional leadership in a wide range of public and nonprofit settings.

All Programs

ABA-MA - Applied Behavior Analysis, M.A.

Program Overview

Program Long Title
Applied Behavior Analysis, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Applied Behavior Analysis

Degree Programs

https://www.tntech.edu/education/ci/graduate.php

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75. Teacher licensure standards may require a separate minimum GPA for licensure.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 21 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 6 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (21 hours)

Complete ALL of the following Courses:

- EDUB6002 - Behavior Assessment
- EDUB6003 - Behavior Intervention
- EDUB6004 - Theory & Phil in Bhav Analysis
- EDUB6005 - Organizational Behavior Mngmt
- EDUB6006 - Ethics in ABA
- EDUB6008 - Topics/Applied Behavior Analys

Research Coursework (6 hours)

Complete ALL of the following Courses:

- EDUB6007 - Resch Methods in Bhav Analysis
- EDUB6100 - Capstone in Behavior Analysis

Advisor Guided Electives (6 hours)

Students, at the advice of their advisor and/or committee, may take 5000-, 6000-, or 7000-level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Total Degree Requirements: 33 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TTU undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TTU undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

AGAN-CER - Nursing, Post Graduate Certificate Adult Geriatric Acute Care Nurse Practitioner

Program Overview

Program Long Title

Nursing, Post Graduate Certificate Adult Geriatric Acute Care Nurse Practitioner

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

This post-graduate certificate in AGACNP will allow APRN's certified in other concentrations such as FNP to expand their role and increase their ability to market themselves in the acute care environment.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

This certificate is a 22 credit hour program and 500 clinical contact hours.

Admission Requirements

Admission Requirements

- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Current certification as an APRN
- Resume or CV with three (3) professional references with appropriate contact information.
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Required Certificate Coures

Type
Completion Requirement

Complete ALL of the following Courses:

- NURS5604 - Adv Patho/Clin Reas I
- NURS5608 - Adv Patho/Clin Reas II
- NURS5610 - Diag Interpret/Thera Mod
- NURS5612 - Acute Cr/Phamacotherapeutics
- NURS5613 - Acute Disease Mgmt Pr I
- NURS5616 - Int in Acute Care NP Practice
- NURS6021 - App - Adv Skills in Acute Care

Additional Information

Information And Additional Notes

Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
    - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
    - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
    - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
    - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
    - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GP A of 3 .0 after one semester may be subject to dismissal without a probationary term.
    - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the course work for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

AGBU-CER - Agribusiness Certificate, M.B.A.

Program Overview

Program Long Title
Agribusiness Certificate, M.B.A.

College/School
Business

Department(s)
Business

Catalog Full Description
The Agribusiness Certificate is designed for current or prospective graduate students who have completed a Bachelor of Science degree in Agriculture or related field. The Agribusiness Certificate consists of 12 hours of industry-relevant graduate course credit and may be acquired in conjunction with, or independent from, other graduate credentials-including the Master of Business Administration (MBA).

Admission Requirements

Admission Requirements

MBA Admission Requirements
Tennessee Tech's AACSB-accredited Master of Business Administration (MBA) program maintains an admission process that considers applicants' total academic and work-life achievements. Admission is open to qualified students with a bachelor's degree from a regionally accredited institution. No GMAT or GRE test score is required to apply. Applications are accepted for fall, spring, and summer semester admission. Application deadlines are listed on the University's Graduate Studies webpage.

To Apply: Visit the online application portal, create an account, complete the application, and upload the following required documents

• A current resume, containing dates for all work experience and degrees received.

• Official transcripts from all institutions where classes were taken and/or a degree received. Factors that may be considered in the admission decision are:

• Undergraduate GPA*

• Professional Work Experience◈

• Graduate Degrees and Relevant Achievements[1]

◈Professional work experience is post-undergraduate professional or military experience and should be described on the applicant's resume.

[1]Graduate degrees (e.g., MD, JD, MS, MA, PharmD, etc.) should be documented on the applicant's transcript(s) and denoted on the resume.

Timely application is important. Applicants are advised to submit their completed application and all required documentation early to be given full consideration for upcoming semesters. Visit the Graduate Admissions Calendar for a complete list of application deadlines.

Important to Note: Additional information is required by Graduate Studies for international students (see Graduate Studies website). A score of 4.0 on the TOEFL or a band score of 6.0 on the IELTS is required for all students whose native language is other than English. Students must be proficient in the use of word processing, spreadsheet, and presentation software including the integration of all three of the above.

Academic Background

The Tennessee Tech MBA welcomes applicants from all academic majors. An undergraduate business degree or prerequisite business courses are not required to be admitted to the program. In lieu of prerequisite coursework, the program provides a self-paced orientation experience that allows students to start the MBA with foundational knowledge. Further details about orientation arrive to accepted students in their admissions information packet.

Standing Upon Admission

Students may be admitted in Full Standing or with Provisional Standing. Admission in Full gives students the greatest flexibility in taking MBA courses. Students admitted provisionally must take ECON 6050 within the first nine (9) hours of their program and maintain a 3.0 GPA on the first nine (9) hours of MBA core content completed. Upon meeting these requirements, the provisional student will be moved to Full Standing

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Agribusiness Certificate is designed for current or prospective graduate students who have completed a Bachelor of Science degree in Agriculture or related field. The Agribusiness Certificate consists of 12 hours of industry-relevant graduate course credit and may be acquired in conjunction with, or independent from, other graduate credentials- including the Master of Business Administration (MBA).

MBA Core Required Courses

Type
Completion Requirement

Core required Courses

Complete ALL of the following Courses:

- ACCT6010 - Acct Info for Mgmt Decisions
- BMGT6200 - Organizational Leadership
- BMGT6950 - Business Strategy
- DS6220 - Management of Info Technology
- ECON6000 - Managerial Economics
- ECON6050 - Analytical Decision Making
- FIN6020 - Financial Management
- MKT6100 - Strategic Marketing

Certificate Requirements

Type
Completion Requirement

Complete at least 4 of the following courses:

- AGBE5110 - Agricultural Futures Marketing and Options
- ECON5120 - Natural Resource Economics
  OR AGBE5120 - Natural Resource Economics
- AGBE5130 - Agricultural Policy
- AGBE5200 - Agribusiness Statistics
- ACCT5300 - Financial Statement Analysis
- AGBE5400 - Agricultural Finance
- FIN6920 - Banking and Financial Services

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Fast Track allows selected undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MBA program. Once admitted to Fast Track, the student will be allowed to enroll in appropriate MBA courses in the senior year

with the consent of the student's undergraduate advisor and the director of Graduate Business Programs. Participation does not change the requirements for the student's undergraduate or MBA program.

Admission to Fast-Track Minimum requirements for admission are:

• 90 hours of undergraduate work or senior standing and successful completion of any required prerequisites

• Recommendation of a faculty member in the student's major

• Overall GPA of 3.2 and GPA of 3.2 in the student's major

• Program participants should consult with their future MBA advisor regarding appropriate graduate courses to take during their senior year.

• All requirements for full admission to Graduate School must be met upon graduation.

• Students who do not receive a grade of B or better in the fast-tracked course will be advised to withdraw from the Fast Track program and complete their B.S. degree as normal.

Fulfilling the above minimum requirements does not guarantee acceptance into the Master of Business Administration Fast Track program or the MBA program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

AGST-MS - Agriscience Technology, M.S.

Program Overview

Program Long Title
Agriscience Technology, M.S.

College/School
Agriculture and Human Ecology

Department(s)
Agriculture

Catalog Full Description
The M.S. Degree in Agriscience Technology degree will focus on developing graduates who are flexible, innovative, and able to solve real world problems using the latest technological advances. Graduates must be adept at applying integrative analytical skills, incorporating technology into their research programs, and being capable of working in diverse groups. This will be achieved through a multi-disciplinary approach within the School of Agriculture utilizing faculty with expertise in animal science, horticulture, soil science, geospatial technology, engineering, and agribusiness.

Admission Requirements

Admission Requirements
Students seeking admission to the MS degree program in Agriscience Technology are required to meet the following admission requirements.

1. An undergraduate degree in agriculture or related areas
2. Undergraduate transcripts with GPA of 3.0 or above
3. A letter of intent (statement of purpose)
4. References for three letters of recommendation

International students must demonstrate competency in spoken and written English and meet other requirements by the college of graduate studies.

Applicants who do not meet the minimum requirements may be admitted on a provisional basis. A provisional student must complete the first three courses with a total of 9 credits of graduate work and achieve a minimum 3.0 GPA.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Thesis Option (30 hours)

Type
Completion Requirement

Core Requirements (14 hours)

Complete ALL of the following Courses:

- AGR6010 - Agroecology
- AGR6100 - Fdns of Sust Agr in Modn Soc
- AGR6120 - Agriscience Tech Colloquium I
  AND AGR6121 - Agriscience Tech Colloquium II

Both AGR6120 (1 hour) and AGR6121 (1 hour) are required.

The Thesis Option also requires 6 hours of AGR6990 Research and Thesis.

Committee-Approved Courses (16 hours)

Earn at least 16 credits from the following:

- AGRN5100 - Weed Science
- AGRN5110 - Forage Crops Prod/Mgmt (Inactive)
- AGRN5120 - Crop Improvement
- AGRN5210 - Soil Fertility & Fertilizers
- AGRN5220 - Environmental Soil Chem
- AGRN5230 - Soil Classification
- AGRN5940 - Agronomy Topics
- AGRN5945 - Soil Science Topics
- AGHT5510 - Fruit & Vegetable Production (Inactive)
- AGHT5530 - Grnhs Crop Production
- AGHT5940 - Horticulture Topics
- AGED5150 - Comm/Pub Rel-Ag & Extension Ed
- AGED5200 - Meth/Techniq-Tch Ag & Ext Ed
- AGED5300 - Dev/Youth Programs-Ag & Ext Ed
- AGED5350 - Prog Pl & Eval/Ag & Extn Ed
- AGED5940 - Agricultural Ed Topics
- AGR5890 - Mtng Chlnges/Diverse Workplce
- AGET5220 - Agri Machinery/Tractors
- AGET5510 - Agricultural Remote Sensing
- AGET5520 - Agricultural Spatial Tech II
- AGET5540 - Adv GIS for Ag & Natural Rsrcs
- AGET5610 - Grnhs Struct/Landscape Equip
- AGET5620 - Agricultural Structures
- AGET5720 - Agricultural Processing
- AGET5940 - Ag Engr Technology Topics
- AGET6200 - Smart Farming Technology
- AGBE5120 - Natural Resource Economics
- AGBE5200 - Agribusiness Statistics
- AGBE5210 - Ag & Biological Statistics
- AGBE5940 - Agribusiness Econ Topics
- ANS5940 - Animal Science Topics
- EVSA6010 - Environmental Agriculture
- EVSA7010 - Crop Environmental Interaction
- EVSA7030 - One Health: Principles & Appl.
- EVSA7970 - Topics in Environmental Ag

Non-Thesis Option (33 hours)

Type
Completion Requirement

Core Requirements (12 hours)

Complete ALL of the following Courses:

- AGR6010 - Agroecology
- AGR6100 - Fdns of Sust Agr in Modn Soc
- AGR6120 - Agriscience Tech Colloquium I
  AND AGR6121 - Agriscience Tech Colloquium II
- AGR6960 - Spl Topics in Agriscience Tech

Both AGR6120 (1 hour) and AGR6121 (1 hour) are required.

For the Non-Thesis option, complete 4 hours of AGR6960 Special Topics in Agriscience Technology.

Committee-Approved Courses (21 hours)

Earn at least 21 credits from the following:

- AGRN5100 - Weed Science
- AGRN5110 - Forage Crops Prod/Mgmt (Inactive)
- AGRN5120 - Crop Improvement
- AGRN5210 - Soil Fertility & Fertilizers
- AGRN5220 - Environmental Soil Chem
- AGRN5230 - Soil Classification
- AGRN5940 - Agronomy Topics
- AGRN5945 - Soil Science Topics
- AGHT5510 - Fruit & Vegetable Production (Inactive)
- AGHT5530 - Grnhs Crop Production
- AGHT5940 - Horticulture Topics
- AGED5150 - Comm/Pub Rel-Ag & Extension Ed
- AGED5200 - Meth/Techniq-Tch Ag & Ext Ed
- AGED5300 - Dev/Youth Programs-Ag & Ext Ed
- AGED5350 - Prog Pl & Eval/Ag & Extn Ed
- AGED5940 - Agricultural Ed Topics
- AGR5890 - Mtng Chlnges/Diverse Workplce
- AGET5220 - Agri Machinery/Tractors
- AGET5510 - Agricultural Remote Sensing
- AGET5520 - Agricultural Spatial Tech II
- AGET5540 - Adv GIS for Ag & Natural Rsrcs
- AGET5610 - Grnhs Struct/Landscape Equip
- AGET5620 - Agricultural Structures
- AGET5720 - Agricultural Processing
- AGET5940 - Ag Engr Technology Topics
- AGET6200 - Smart Farming Technology
- AGBE5120 - Natural Resource Economics
- AGBE5200 - Agribusiness Statistics
- AGBE5210 - Ag & Biological Statistics
- AGBE5940 - Agribusiness Econ Topics
- ANS5940 - Animal Science Topics
- EVSA6010 - Environmental Agriculture
- EVSA7010 - Crop Environmental Interaction
- EVSA7030 - One Health: Principles & Appl.
- EVSA7970 - Topics in Environmental Ag

Additional Information

Information And Additional Notes

Academic Standards

Admission, retention and graduation standards will follow Tennessee Tech College of Graduate standards. Per Tennessee Tech's College of Graduate Studies, admission to the College of Graduate Studies is open to anyone holding a bachelor's or master's degree from an accredited college or university. A foreign degree must be equivalent to a U.S. Bachelor's degree and must be accredited by its regional or national accreditation agency or Ministry of Higher Education.

Admission

Students are admitted to Tennessee Tech University through a cooperative effort of the College of Graduate Studies and the departments, colleges, and schools of the University. When the College of Graduate Studies receives the student's application material, an official file is established. The department then reviews the application file and makes a recommendation to the College of Graduate Studies, who notifies applicants as soon as a decision has been reached.

Graduate students in a program leading to the master's degree, except those in Special Standing, should make application for admission to candidacy immediately following the completion of nine (9) semester hours of graduate credit. If application is not made by the time 15 hours are completed, the student may not be permitted to register for subsequent work until the application is approved. The requirements which must be met before approval of admission to candidacy are:

1. the achievement of Full Standing.
2. the completion of at least nine (9) semester hours of graduate credit with a minimum quality point average of 3.0.
3. the written approval by the student's advisory committee.
4. the written approval of the chairperson of the major department.

5. successful completion of any examination which may be required by the student's department.

If the student's application for admission to candidacy is not approved due to academic deficiencies, the student cannot continue graduate study with a major in any of the departments of the college in which he/she is studying.

Acceptance of Transfer and other Credit

The College of Graduate Studies specifies that students who wish to transfer graduate course credits from an accredited institution to Tennessee Tech must request that the institution send official transcripts, including all grades, directly to Tennessee Tech. The Graduate Program Director will determine whether transfer coursework is eligible for transfer to the student's program of study. Coursework transferred or accepted for credit toward a graduate degree must have a minimum grade of "B" in each course. Any decision on acceptance of transfer credit will follow SACSCOC Accreditation Standard 3.6.3. Tennessee Tech's policy is to exclude grades earned in transferred courses in the calculation of grade point averages. Tennessee Tech Policy #283 (General Graduate Transfer Credit Requirements) provides additional information on Transfer Credit.

Comprehensive Examination

The College of Graduate Studies requires that each candidate must pass a comprehensive examination, conducted by the candidate's graduate advisory committee, at or near the completion of the course requirements for the graduate degree. The examination, which may be oral or written or both, should require the student to demonstrate breadth of knowledge in the discipline, depth in specific areas, and the ability to integrate what has been learned.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MS in Agriscience Technology Fast-track program applies to all concentrations in the School of Agriculture.

The Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the Master of Science in Agriscience Technology program. The courses taken during the student's junior/senior year can be used to satisfy both undergraduate and graduate degree requirements.

The minimum requirements for participating in the MAT Fast-track program include:

• Must be earning a Bachelor's degree at TN Tech and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor; and

• Course approval from undergraduate advisor and Director of the MAT program.

The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their MAT program of study;

In addition to the requirements for admission to the MAT Fast-Track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

BFS-CER - Banking and Financial Services Certificate, M.B.A.

Program Overview

Program Long Title

Banking and Financial Services Certificate, M.B.A.

College/School

Business

Department(s)

Business

Catalog Full Description

Banking and Financial Services Certificate

The certificate aims to serve professionals in all areas of banking, including but not limited to bank management, financial services management and marketing, commercial lending and basic risk assessment, and derivative products. The certificate will also provide fundamental knowledge in data analytics and cyber management.

MBA with a Certificate

- **MBA Core Required Courses:** 24 hours
- **Certificate Courses*:** 12 hours
- **Total:** 36 hours

*2 MBA electives courses (6 hours) count toward the 4 certificate courses (12 hours) required.

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

Note: Participants from the Graduate School of Banking at LSU or the Barrette School of Banking may, upon approval, substitute 6 hours of course credit towards the TTU MBA program.

Admission Requirements

Admission Requirements

MBA Admission Requirements

Tennessee Tech's AACSB-accredited Master of Business Administration (MBA) program maintains an admission process that considers applicants' total academic and work-life achievements. Admission is open to qualified students with a bachelor's degree from a regionally accredited institution. No GMAT or GRE test score is required to apply. Applications are accepted for fall, spring, and summer semester admission. Application deadlines are listed on the University's Graduate Studies webpage.

To Apply: Visit the online application portal, create an account, complete the application, and upload the following required documents

• A current resume, containing dates for all work experience and degrees received.

• Official transcripts from all institutions where classes were taken and/or a degree received. Factors that may be considered in the admission decision are:

• Undergraduate GPA*

• Professional Work Experience◈

• Graduate Degrees and Relevant Achievements[1]

◈Professional work experience is post-undergraduate professional or military experience and should be described on the applicant's resume.

[1]Graduate degrees (e.g., MD, JD, MS, MA, PharmD, etc.) should be documented on the applicant's transcript(s) and denoted on the resume.

Timely application is important. Applicants are advised to submit their completed application and all required documentation early to be given full consideration for upcoming semesters. Visit the Graduate Admissions Calendar for a complete list of application deadlines.

Important to Note: Additional information is required by Graduate Studies for international students (see Graduate Studies website). A score of 4.0 on the TOEFL or a band score of 6.0 on the IELTS is required for all students whose native language is other than English. Students must be proficient in the use of word processing, spreadsheet, and presentation software including the integration of all three of the above.

Academic Background

The Tennessee Tech MBA welcomes applicants from all academic majors. An undergraduate business degree or prerequisite business courses are not required to be admitted to the program. In lieu of prerequisite coursework, the program provides a self-paced orientation experience that allows students to start the MBA with foundational knowledge. Further details about orientation arrive to accepted students in their admissions information packet.

Standing Upon Admission

Students may be admitted in Full Standing or with Provisional Standing. Admission in Full gives students the greatest flexibility in taking MBA courses. Students admitted provisionally must take ECON 6050 within the first nine (9) hours of their program and maintain a 3.0 GPA on the first nine (9) hours of MBA core content completed. Upon meeting these requirements, the provisional student will be moved to Full Standing.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

MBA with a Certificate

- MBA Core Required Courses: 24 hours
- Certificate Courses*: 12 hours
- Total: 36 hours

*2 MBA electives courses (6 hours) count toward the 4 certificate courses (12 hours) required.

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

Note: Participants from the Graduate School of Banking at LSU or the Barrette School of Banking may, upon approval, substitute 6 hours of course credit towards the TTU MBA program.

Requirements

Type
Completion Requirement

MBA Core Required Courses

Complete ALL of the following Courses:

- ACCT6010 - Acct Info for Mgmt Decisions
- BMGT6200 - Organizational Leadership
- BMGT6950 - Business Strategy
- DS6220 - Management of Info Technology
- ECON6000 - Managerial Economics
- ECON6050 - Analytical Decision Making
- FIN6020 - Financial Management
- MKT6100 - Strategic Marketing

Certificate Requirements

Complete at least 4 of the following courses:

- FIN6920 - Banking and Financial Services
- MKT6510 - Services Marketing
- ACCT5300 - Financial Statement Analysis
  OR DS6540 - Network Security
  OR DS6570 - Cyber Security Mgmt.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast Track allows selected undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MBA program. Once admitted to Fast Track, the student will be allowed to enroll in appropriate MBA courses in the senior year with the consent of the student's undergraduate advisor and the director of Graduate Business Programs. Participation does not change the requirements for the student's undergraduate or MBA program.

Admission to Fast-Track Minimum requirements for admission are:

• 90 hours of undergraduate work or senior standing and successful completion of any required prerequisites

• Recommendation of a faculty member in the student's major

• Overall GPA of 3.2 and GPA of 3.2 in the student's major

• Program participants should consult with their future MBA advisor regarding appropriate graduate courses to take during their senior year.

• All requirements for full admission to Graduate School must be met upon graduation.

• Students who do not receive a grade of B or better in the fast-tracked course will be advised to withdraw from the Fast Track program and complete their B.S. degree as normal.

Fulfilling the above minimum requirements does not guarantee acceptance into the Master of Business Administration Fast Track program or the MBA program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

BIOL-MS - Biology, M.S.

Program Overview

Program Long Title
Biology, M.S.

College/School
Arts and Sciences

Department(s)
Biology

Catalog Full Description
The purpose of the Master of Science degree program in the Department of Biology is to prepare graduates for high-level careers in various areas of biology. The department offers the M.S. degree with the option of selecting from a variety of thesis research topics based on individual research interests of the faculty.

The M.S. in Biology is a 30 hour research degree program. Core requirements are defined as follows:

- **Core required courses:** 1 hour
- **Advisor Approved Electives:** 20 hours
- **Research and Thesis:** 6 hours
- **Statistics course:** 3 hours
- **Total Hours:** 30 hours

Admission Requirements

Admission Requirements
Guidelines for full admission into the program require that one of the following two requirements be met:

1. A minimum overall undergraduate grade-point average of 3.0 (on a 4-point scale) OR an undergraduate grade-point average of 3.0 in all Biology, Wildlife Fisheries Science, and related courses.
2. Combined Quantitative and Verbal Revised GRE score totaling 300, and a minimum Analytical Writing score of 3.0.

Applicants that do not meet either of these guidelines can be considered for provisional admission through an appeal to the Graduate Policies Committee within the Department of Biology.

In addition to meeting the GPA or GRE requirements, a student will not be admitted without being accepted by a faculty advisor (Advisor Acceptance Form). The advisor will serve as the student's thesis advisor during the student's pursuit of the graduate degree.

Applicants should be aware that meeting these minimum requirements does not guarantee admission to the program, since:

The Department may not be able to financially support the research of the student, regardless of whether or not a student receives a stipend in the form of teaching or research assistantship. Additional resources must be provided to Biology graduate students in order to conduct their thesis research. The cost to conduct graduate research in the Department of Biology varies widely between and within disciplines and is affected by factors such as whether the study will be conducted in a laboratory or the field (or both), whether or not specialized equipment is required, the amount of travel that may be necessary, and wages of full-time or part-time assistants.

The Department may have more students than the faculty can reasonably guide. Prospective Biology graduate students should contact a potential faculty advisor in their research area prior to applying for admission. A student will not be admitted without being accepted by a faculty advisor (Advisor Acceptance Form). The advisor will serve as the student's thesis advisor during the student's pursuit of the graduate degree. Acceptance of a student by the faculty advisor is dependent upon similarity of research interests, experience, recommendations, admission standards, number of graduate students that the faculty member is currently advising, and available funding for research.

Although the Department of Biology has no strict deadlines for application, complete applications for students being considered for teaching assistantships should be received no later than November 1 for enrollment the following Spring Semester, and April 1 for enrollment the following Fall Semester. Applicants being considered for research assistantships will be evaluated as extramural funding becomes available.

For more detailed requirements and thesis research options, contact the department chair.

Provisional Admission Procedures
Students who do not meet departmental GPA and GRE General Test (GRE) requirements can be admitted provisionally by appealing the initial rejection decision to the Department of Biology Graduate Policies Committee. This committee will only consider appeals that are presented by the applicant's potential faculty advisor. Criteria commonly used by the Graduate Policies Committee regarding appeals are previous experience in the area of research and work history following graduation. Absolute minimum requirements for appeal consideration will consist of a minimum overall undergraduate grade point average of 2.5 (minimum requirement of Graduate School for non-provisional admission).

The Graduate Policies Committee will make the final decision for all appeals.

Provisional Status Requirements
All applicants who do not meet the minimum requirements established for admission to the Master of Science Program within the Department of Biology, and who are granted an appeal by the Department of Biology Graduate Policies Committee, will be admitted with provisional standing. Provisions for achieving full standing will be determined by the Graduate Policies Committee in consultation with the student's faculty advisor and departmental chair.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The M.S. in Biology is a 30 hour research degree program. Core requirements are defined as follows:

- Core required courses: 1 hour
- Advisor Approved Electives: 20 hours
- Research and Thesis: 6 hours
- Statistics course: 3 hours
- Total Hours: 30 hours

Degree Requirements

Type
Completion Requirement

Core Required Course (1 hour)

Complete ALL of the following Courses:

- BIOL6930 - Seminar

Advisor Approved Electives (20 hours)

Selection of appropriate courses (BIOL 5000, BIOL 6000, EVSB 7000 level, EVS 7900 and WFS 5000 level) will be in consultation with the student's advisory committee and/or the graduate coordinator.

Thesis Research Requirements (6 hours)

Complete ALL of the following Courses:

- BIOL6990 - Research and Thesis

Core Statistics Requirement (3 hours)

Complete at least 1 of the following courses:

- BIOL6140 - Fish & Wildlife Biometrics
- BIOL6810 - Ecological Ordination
- MATH5470 - Probability & Statistics I
- MATH5480 - Probability & Statistics II
- MATH6070 - App Linear Stat Meth I
- MATH6080 - App Linear Stat Meth II
- MATH6170 - Experimental Design I
- MATH6180 - Experimental Design II
- MATH6270 - Mathematical Statistics
- MATH6470 - Environmental Statistics
- PSY6310 - Educational Statistics
- PSY7310 - Adv Educational Statistics
- WFS5220 - Biostatistics

Total Degree Requirements = 30 credit hours

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CE-MS - Civil Engineering, M.S.

Program Overview

Program Long Title

Civil Engineering, M.S.

College/School

Engineering

Department(s)

Civil and Environmental Engr

Catalog Full Description

The Department of Civil and Environmental Engineering offers advanced studies leading to the Master of Science degree in Civil Engineering and the Doctor of Philosophy degree in Engineering with specialization in Civil Engineering. The goals of the Ph.D. program are listed under the College of Engineering and administered by the Associate Dean of Engineering for Graduate Studies and Research. The goal of the MS program is to provide the strong academic programs necessary to prepare students to become educated members of society who can join and make significant contributions to the civil engineering profession.

This is accomplished by allowing MS graduate students to specialize in specific engineering topics through advanced and in-depth studies in these topics; by providing guidance to students in fundamental and applied research; by helping them to develop powers of analysis, synthesis and critical thinking; and by preparing outstanding graduate students to continue academic and research careers through doctoral-level studies.

The department offers the Master of Science Degree in Civil Engineering with concentrations in environmental engineering, structural engineering, and transportation engineering. The departmental faculty have expertise and conduct research in the following areas: environmental and water resources engineering; structural engineering, transportation and paving materials; engineering mechanics; and computational mechanics. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Many departmental faculty actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Degree Requirements (Thesis)

- **Core Required Course:** 1 hour
- **Concentration Area Requirement*:** 15 hours
- **Advisor Approved Electives*:** 9 hours
- **Research Requirement:** 6 hours
- **Degree Total Requirements:** 31 hours

Degree Requirements (Non-Thesis, Fully Online)

- **Core Required Course:** 1 hour
- **Concentration Area Requirement*:** 21 hours
- **Advisor Approved Electives*:** 9 hours
- **Total Degree Requirements:** 31 hours

Admission Requirements

Admission Requirements

An applicant for admission to the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent.

Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department: *undergraduate GPA of at least 3.0 on a 4.0 scale,

*GRE® General Test (GRE) scores with Quantitative greater than or equal to 50%; Verbal greater than or equal to 33%; Analytical Writing greater than or equal to 33%. Students with BS degrees in related fields from TTU are not required to take the GRE.

*Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.

*Availability of appropriate faculty to serve as research advisor(s).

*Participation in undergraduate research.

*Post-BS degree professional experience relevant to planned degree of study.

*Publications in peer reviewed journals and/or award-winning presentations in technical conferences.

International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission.

Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Note: The program is designed for graduates of approved undergraduate programs. Thus, a baccalaureate degree in civil engineering is required for full standing. Applicants that have an undergraduate degree in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

To receive an MS degree in CEE, the student should complete all the MS requirements specified by the University and the College of Engineering. Additionally, certain departmental requirements listed below shall also be satisfied:

Thesis Option (31 hours)

An MSCE program of study with thesis option requires a minimum of 31 semester hours of graduate-level coursework which are on the program of study approved by the student's graduate advisory committee, including one semester hour of CEE6910 Graduate Seminars - CEE Graduate Seminar, and a minimum of six (6) hours of thesis completed under the supervision of the graduate advisor (31 hours). At least 15 credit hours of graduate coursework must be CEE courses. The required thesis should document the student's research to the satisfaction of both the student's graduate advisory committee and the Graduate School. The student must also successfully defend his/her thesis before the graduate advisory committee. A minimum GPA of 3.0 is also required. Other departmental requirements may apply.

Degree Requirements

- Core Required Course: 1 hour
- Concentration Area Requirement*: 15 hours
- Advisor Approved Electives*: 9 hours
- Research Requirement: 6 hours
- Degree Total Requirements: 31 hours

* Concentration Area and Advisor Approved Electives maybe selected from CEE, CHE, CSC, EMGT, ENGR, ME, BIOL, ESS, EVS, GEOG, MATH, OR CHEM 5000, 6000, 7000 level courses.

Non-Thesis Option (31 hours, Fully Online)

An MSCE program of study with non-thesis option requires a minimum of 31 credit hours of graduate course work, as specified in the student's approved Program of Study. This program is offered in a fully online delivery mode. The program of study shall include 30 semester hours of graduate level coursework, one semester hour of CEE6910 Graduate Seminars - CEE Graduate Seminar. At least 21 credit hours of graduate coursework must be CEE courses. No more than 9 credit hours at the 5000 level are permitted. Non-thesis MSCE will complete a culminating exam to reflect comprehensive knowledge gained from coursework. Successful completion of the exam is required for graduation. Other departmental requirements may apply.

Degree Requirements

- Core Required Course: 1 hour
- Concentration Area Requirement*: 21 hours
- Advisor Approved Electives*: 9 hours
- Total Degree Requirements: 31 hours

* Selection of appropriate courses (CEE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator. Courses may include, but are not limited to, other relevant engineering disciplines (such as CHE, CSC, EMGT, ENGR, or ME) or outside of engineering such as (BIOL, CHEM, ESS, EVS, GEOG, GEOL, or MATH).

Thesis Option (31 hours)

Type
Completion Requirement

Core Required Course (1 hour)

Complete ALL of the following Courses:
- CEE6910 - Graduate Seminars

Concentration Area Requirement (15 hours)

Selection of appropriate courses (CEE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives (9 hours)

Selection of appropriate courses (CEE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Research Requirement (6 hours)

Complete ALL of the following Courses:
- CEE6990 - Research & Thesis

Non-Thesis Option (31 hours)

Type
Completion Requirement

Core Required Courses (1 hour)

Complete ALL of the following Courses:

- CEE6910 - Graduate Seminars

Concentration Area Requirements (21 hours)

Selection of appropriate courses (CEE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives (9 hours)

Selection of appropriate courses (CEE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator. Courses may include, but are not limited to other relevant engineering disciplines (such as CHE, CSC, EMGT, ENGR, or ME) or outside of engineering (such as BIOL, CHEM, ESS, EVS, GEOG, GEOL, or MATH).

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast-track M.S. Program in Civil Engineering will provide an opportunity for promising CEE undergraduate students to accelerate the completion of the M.S. by allowing undergraduates to accumulate up to six (6) credit hours of graduate coursework while still pursuing their undergraduate degree and to transition to the graduate program smoothly. Up to six hours of graduate coursework, exclusive of directed study, taken during the student's senior year can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum for senior CEE electives.

Students must apply to the CEE Fast-track M.S. program by the end of their second junior term. Students must apply and take the GRE(R) General Test (GRE) during their second senior term (one [1] semester prior to their anticipated graduation). The CEE Fast-track students should be aware that they need to consult with their future M.S. advisor for the 5000-level courses taken during their senior terms, especially for the courses not in their area of concentration. The minimum requirements for acceptance into the Fast-track program are:

• Enrolled in TTU Civil Engineering student with Junior or Senior standing

• Overall GPA of 3.25 and a GPA for CEE courses of at least 3.5

• Recommendation of a CEE faculty mentor

• All requirements for admission to Graduate School must be met upon graduation

CHE-MS - Chemical Engineering, M.S.

Program Overview

Program Long Title

Chemical Engineering, M.S.

College/School

Engineering

Department(s)

Chemical Engineering

Catalog Full Description

The Master of Science degree program in the Department of Chemical Engineering is available to individuals who have completed a BS degree in Chemical Engineering or a closely allied field.

The MS program's technical content and research component prepares the individual to enter the profession with advanced engineering skills.

Graduate students pursuing the MS degree develop a program of study tailored to their objectives and complete a master's thesis. Research topics in the areas of electric field-based processes and systems, biological engineering processes and systems, molecularly based engineered materials and interfacial systems, and computational mathematics are among those available.

The departmental faculty and graduate students work cooperatively with the three State funded Centers of Excellence: two within the College of Engineering and one under the Office of Research & Economic Development.

Master's Degree Options

Degree Requirements (Thesis)

- Core Required Course: 12 hours
- **Advisor Approved Electives*:** 12 hours
- **Thesis Research Hours:** 6 hours
- **Total Requirements - Thesis Option:** 30 hours

Degree Requirements (Non-Thesis)

- **Core Required Course:** 13 hours
- **Advisor Approved Electives*:** 18 hours
- **Non-Thesis Project Course:** 3 hours
- **Total Requirements - Non-Thesis Option:** 34 hours

Admission Requirements

Admission Requirements

Departmental Admission Requirements

An applicant for admission to the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent.

Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department: *undergraduate GPA of at least 3.0 on a 4.0 scale,

*GRE® General Test (GRE) scores with Quantitative greater than or equal to 50%; Verbal greater than or equal to 33%; Analytical Writing greater than or equal to 33%. Students with BS degrees in related fields from TTU are not required to take the GRE.

*Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.

*Availability of appropriate faculty to serve as research advisor(s).

*Participation in undergraduate research.

*Post-BS degree professional experience relevant to planned degree of study.

*Publications in peer reviewed journals and/or award-winning presentations in technical conferences.

International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission.

Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Note: The program is designed for graduates of approved undergraduate programs. Thus, a baccalaureate degree in chemical engineering is required for full standing. Applicants that have an undergraduate degree in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Thesis Option

An MS-CHE program of study with thesis option requires a minimum of 30 semester hours of graduate-level coursework which are on the program of study approved by the student's graduate advisory committee, including a minimum of six (6) hours of thesis complete under the supervision of the graduate advisor. No more than nine (9) credit hours at the 5000-level are permitted. A minimum GPA of 3.0 is also required. Other departmental requirements may apply.

Degree Requirements

- Core Required Courses: 12 hours
- Advisor Approved Electives: 12 hours
- Thesis Research Hours: 6 hours
- Total Requirements - Thesis Option: 30 hours

Non-Thesis Option

An MS-CHE program of study with non-thesis option requires a minimum of 34 credit hours of graduate coursework, as specified in the student's approved Program of Study. The program of study shall include 30 semester hours of graduate-level coursework, three (3) credits of CHE 6970, and one (1) semester hour of CHE 6920-CHE Graduate Seminar. No more than nine (9) credit hours at the 5000-level are permitted. Other departmental requirements may apply.

Degree Requirements

- Core Required Course: 13 hours
- Advisor Approved Electives: 18 hours
- Non-Thesis Project Course: 3 hours
- Total Requirements - Non-Thesis Option: 34 hours

Thesis Option (30 hours)

Type

Completion Requirement

Thesis Core Requirement (12 hours)

Complete ALL of the following Courses:

- CHE6010 - Adv Chem Engr Thermodynamics
- CHE6140 - Physics of Transport
  OR ME6040 - Intermediate Fluid Mechanics
- CHE6210 - Advanced Kinetics
- MATH5510 - Adv Math for Engineers

Thesis Advisor Approved Electives (12 hours)

12 credits hours of advisor approved electives must be completed. Selection of advisor approved electives will be made in consultation with the student's advisory committee and /or the graduate coordinator. Courses may include, but are not limited to, other relevant engineering disciplines such as CEE, CSC, ECE, EMGT, ENGR, or ME or outside of engineering such as BIOL, CHEM, ESS, EVS, GEOG, GEOL, or MATH.

Thesis Research Requirement (6 hours)

6 hours of CHE6990 Research & Thesis Research and Thesis. The required thesis should document the student's research to the satisfaction of both the student's graduate advisory committee and the Graduate School. The student must also successfully defend the thesis before the graduate advisory committee.

Additional Comments:

Total Degree Hours: 30

Non-Thesis Option (34 hours)

Type

Completion Requirement

Non-Thesis Core Requirement (13 hours)

Complete ALL of the following Courses:

- CHE6010 - Adv Chem Engr Thermodynamics
- CHE6140 - Physics of Transport
  OR ME6040 - Intermediate Fluid Mechanics
- CHE6210 - Advanced Kinetics
- CHE6920 - Chem Engr Grad Seminar
- MATH5510 - Adv Math for Engineers

Non-Thesis Advisor Approved Electives (30 hours)

18 hours of advisor approved electives must be completed. Selection of advisor approved electives will be made in consultation with the student's advisory committee and /or the graduate coordinator. Courses may include, but are not limited to, other relevant engineering disciplines such as CEE, CSC, ECE, EMGT, ENGR, or ME or outside of engineering such as BIOL, CHEM, ESS, EVS, GEOG, GEOL, or MATH.

Non-Thesis Project Requirement (3 hours)

Non thesis MS-CHE degree-seeking students, as part of the CHE6970 Non-Thesis Design Project project course, will maintain and submit a project binder and present details regarding the project to reflect comprehensive knowledge gained throughout the student's program of study.

Additional Comments:

Total Degree Hours: 34

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Chemical Engineering Fast-track Master of Science (MS) program is designed to enable Tennessee Technological University ChE undergraduates to take up to six (6) hours of graduate coursework during the students junior/senior year which can be used to satisfy both undergraduate and graduate degree requirements. ChE Fast-track MS students receiving their bachelor's degrees at the end of the Spring semester will be expected to complete the MS by the end of the summer term of the following year.

The minimum requirements for acceptance into the Fast-track program are:

Be enrolled as an undergraduate ChE student at TTU with at least Junior standing

- Have at least an overall GPA of 3.25 and have at least a 3.25 GPA in ChE
- The student must earn a minimum grade of B in the graduate courses in order to apply them to their M.S. program of study and to continue in the Fast Track program. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.
- In addition to the requirements for admission to the ChE Fast-track MS program, all requirements for admission to the ChE graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The departments graduate committee will review the application and make a decision for approval.

Participation in the ChE Fast-track MS program does not change the requirements for either the undergraduate or graduate degree. All students in the MS program take 30 credit hours: 24 hours of coursework and 6 hours of research and thesis.

CHEM-MS - Chemistry, M.S.

Program Overview

Program Long Title

Chemistry, M.S.

College/School

Arts and Sciences

Department(s)

Chemistry

Catalog Full Description

The Department of Chemistry offers a program of study leading to an M.S. in Chemistry designed to prepare graduates for a successful career in industry or to continue their education in a doctoral program or professional school. By offering courses in the five (5) major areas of chemistry, the students have an opportunity to reinforce their background and expand their knowledge in areas not covered by their undergraduate degree. The faculty maintains a wide variety of research programs, which gives each student a chance to conduct, evaluate, and report on original research. A low student-to-faculty ratio allows for individual attention and produces a stimulating intellectual atmosphere conducive to learning.

Degree Requirements

- **Core Required Courses:** 9 hours
- **Advanced Electives:** 12 hours
- **Additional Electives:** 9 hours
- **Total:** 30 hours

Admission Requirements

Admission Requirements

Students seeking admission to full standing in the M.S. program in Chemistry are required to have a Bachelor's degree in Chemistry that has been certified by the American Chemical Society or course work equivalent to this degree, with an undergraduate GPA of at least 2.5 on a 4.0 scale. Applicants lacking prerequisite coursework may be admitted to provisional standing and required to pass the prerequisite coursework before being admitted to full standing.

Applicants with an undergraduate GPA less than 3.0 and an application packet (including a statement of purpose and letter of recommendation) that does not demonstrate a strong justification for admission may be required to take the general portion of the GRE General Test (GRE). To be admitted to full standing an applicant must score at least 300 (Quantitative and Verbal combined) on the GRE General Test, and at least 3.5 on the Analytical Writing portion. An applicant with an undergraduate GPA of less than 3.0 who does not submit GRE scores, or whose scores do not meet the requirements, may still be considered for admission, if the applicant has demonstrated outstanding potential for advanced study and research through research or work experience. Applicants with an undergraduate GPA greater than 3.0 MAY submit GRE scores, but the GRE is not required.

All students must submit a short (2-3 page) Statement of Purpose. The Statement of Purpose must address skills and achievements from previous academic, research, or industrial experience, and must identify specific research topics of interest to pursue at TTU. Applicants will not be considered without a Statement of Purpose. The statement of purpose is reviewed as a criterion for admission, a generic statement of purpose is discouraged.

All students must supply at least one letter of recommendation from a work or research supervisor or mentor in a STEM discipline or enterprise.

International students are required to demonstrate competency in spoken and written English by taking appropriate standardized tests. Common examples include TOEFL examination (minimum score of 4.0) and the IELTS examination (minimum score 6.0)

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

- Core Required Courses: 9 hours
- Advanced Electives: 12 hours
- Additional Electives: 9 hours
- Total: 30 hours

The program of study for the M.S. in Chemistry includes satisfactory completion of a thesis, and coursework as detailed below:

Degree Requirements

Type

Completion Requirement

Required Core

Fulfill ALL of the following requirements:

Seminars (2 hours)

Complete ALL of the following Courses:

- CHEM6910 - Chemistry Literature Seminar
- CHEM6911 - Chemistry Thesis Seminar

AND

Research & Thesis (6 hours)

Complete ALL of the following Courses:

- CHEM6990 - Research and Thesis

AND

Directed Studies (1 hour)

Complete ALL of the following Courses:

- CHEM6900 - Dir Studies-Chemistry

CHEM6900 Dir Studies-Chemistry (Directed Studies) includes a comprehensive oral examination administered by the student's graduate committee.

Advanced Electives (12 hours)

Advanced Electives may be selected from any coursework that meets the department's expectations, based on the student's Program of Study and in consultation with the student's graduate committee and the program academic advisor. Any CHEM 6000 OR 7000 LEVEL OR EVS 7000 LEVEL

Additional Electives (9 hours)

Additional Electives may be selected from any coursework that meets the department's expectations, based on the student's Program of Study and in consultation with the student's graduate committee and the program academic advisor. Any CHEM 5000 OR 6000 Level

Additional Comments:

Total Degree Requirements: 30 hours

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast-Track M.S. Chemistry program is designed for chemistry majors in the A.C.S.-certified concentration, enabling them to earn the M.S. degree in Chemistry by staying at Tech one (1) additional academic year and two (2) summers. A senior who opts for the fast-track program will take six (6)hours graduate coursework as a senior and can be used to satisfy both undergraduate and graduate degree requirements. These hours can include either 4000/5000 dually-listed chemistry courses taken at the 5000-level OR can include 6000-level chemistry and 7000-level environmental science courses. These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum for senior CHEM electives. The admission requirements are:

1. Subject to approval by the chair and the chemistry graduate committee
2. Overall GPA = 2.8 or above, 3.0 or above in upper-division chemistry courses
3. Application allowed once Junior Standing is earned
4. Can begin Fast-Track Program as a Senior
5. Final B.S. must include a minimum of:

• two (2) semesters of calculus
• two (2) semesters each of general, organic, and physical chemistry
• one (1) semester each of analytical chemistry and biochemistry.

Entrance to the Fast-Track program can be granted if the student has met requirements 1 and 2 above.

TTU seniors who do not fully qualify for the Fast-Track program but who plan to seek an M.S. Chemistry degree at TTU may take up to nine (9) graduate-level coursework hours as a senior. Subject to instructor approval, these hours can include either 4000/5000 dually-listed chemistry courses taken at the 5000-level OR can include 6000-level 60 chemistry and 7000-level environmental science courses.

CHL-MS - Child Life

Program Overview

Program Long Title
Child Life

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Catalog Full Description
The Master of Science in Child Life degree program is designed for candidates pursuing careers applying evidence-based research knowledge to clinical child life practice for positive patient outcomes and patient experiences. This master's degree is a practitioner's degree to provide advanced content knowledge in child life clinical practice, psychosocial care of children and families, and evidence-based practice to credentialed CCLS professionals seeking a graduate degree for employment enhancement, bachelor's prepared individuals seeking child life academic preparation for child life professional certification eligibility, and undergraduate human development and family science students seeking child life academic preparation for professional child life certification eligibility. The program is grounded in developmental theory, family science, and stress and coping for in-depth understanding of children and families.

The degree only option is 36 credits. For students who wish to pursue the Child Life Certification, an additional 12 credits of Experiential Learning courses are required for a total of 48 credits.

Admission Requirements

Admission Requirements
Applicants must submit the following for admission consideration:

1. Online application for graduate admission and the nonrefundable application fee.

2. Official transcripts of undergraduate and graduate credit from all institutions attended.

3. Undergraduate degrees from regionally accredited college or university accepted include human development and family science, family and consumer sciences, health sciences, nursing, social work, and psychology. Other undergraduate degrees not specifically listed here will be reviewed based on transcript content.

4. **Prerequisite coursework is required.** Students must have taken these courses from an accredited academic institution earning a grade of B or higher and completing courses within 5 years of application:

a. A minimum of 1 developmental course including ages 0-18 (early child, middle child, adolescent development). Lifespan development courses will not be considered, because in-depth knowledge of children and adolescents is required.

b. Anatomy and Physiology (minimum 3 credit hours)

c. Medical Terminology (minimum 1 credit hour)

Any deviations from this prerequisite coursework will be reviewed on a case-by-case basis.

5. Undergraduate Cumulative GPA of at least 3.0 on a 4.0 scale.

6. Volunteer/Work/Practicum Experience: Applicants must have a minimum of 100 hours of volunteer, practicum, or paid work experience in a child/adolescent focused or child and family services setting. Experiences with children in healthcare settings supervised by a Certified Child Life Specialist are preferred.

7. References (2) – when the application is submitted provide the contact information for two references. An email will then be sent to these references to complete an online recommendation form.

a. At least one reference should be from a former college or university instructor.

b. The second reference should be from someone who has directly observed the applicant interacting with children and/or adolescents.

c. Both references must be able to speak to the applicant's potential for success in a child life graduate program.

d. The application is not complete until these recommendation forms from your references are received by the graduate program.

8. Applicants will indicate on the graduate application the TRACK they are applying to

a. The MS Degree in Child Life AND Experiential Learning

b. The MS Degree ONLY

9. Resume – upload a professional resume (no more than 2 pages).

10. Personal Statement – This will serve as a professional writing example and must use professional, formal language and tone, correct grammar, spelling, and syntax. This statement should demonstrate your interest in TN Tech's M.S. Degree in Child Life and how it will help you meet your career goals. Limit the Personal Statement to a maximum of 1,200 words (approximately 200 words per item) and specifically address the following questions in the personal statement.

Upload a separate document, which includes the following:

a. Explain what a child life specialist is and the child life specialist's role on the healthcare team.

b. How has your undergraduate degree prepared you for this child life graduate program?

c. List your professional goals. How will a graduate degree in child life help you reach your goals?

d. Explain how two different experiences with children from your resume will assist you in succeeding in the child life graduate degree program?

e. How have you prepared yourself for success in this graduate degree program?

f. Elaborate on your unique story that motivates you to seek a child life graduate degree.

Notes:

1. Applicants determined to be competitive upon review of the application requirements will be invited to interview with the Program Director and an admissions team via a virtual platform with a functioning camera for further consideration in the selection process.

2. Applicants are selected on a competitive basis and, therefore, admission is not granted to all applicants who meet the minimum requirements.

Application deadline for degree seeking students varies based on the semester you wish to enroll. Application deadlines may be found on the College of Graduate Studies "How to Apply" section of the website.

Those interested in the experiential learning necessary to become a Certified Child Life Specialist, must apply by the December 15 deadline for a Fall start date. If a cohort does not fill (maximum 10 students), applications for a Fall start date will be accepted until April 15.

Additional Admission Requirements – Experiential Learning Track

In addition to the requirements for admission to the Master of Science in Child Life as stated above, applicants who want to also be admitted to the Experiential Learning Track must provide:

1. Evidence of Work/Volunteer Experience – documentation of 100 hours of work or volunteer experience in child or adolescent focused or child and family services settings must be completed within 4 years of application. Of the 100 hours, at least 50 hours must be in a child life setting supervised by a Certified Child Life Specialist. The Experiential Track Supplemental Form must be

completed to document these experiences. This form will be uploaded with the Graduate application and is available on the College of Graduate Studies Online Forms webpage.

2. Personal Statement: In addition to the questions listed above for the Personal Statement, applicants for the Experiential Learning Track should include why they are pursuing the Certified Child Life Specialist (CCLS) credential in a minimum of 500 words and maximum of 1000 words.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The degree only option is 36 credits. For students who wish to pursue the Child Life Certification, an additional 12 credits of Experiential Learning courses are required for a total of 48 credits.

Prerequisite coursework is required. Students must have taken these courses from an accredited academic institution earning a grade of B or higher and completing courses within 5 years of application:

a. A minimum of 1 developmental course including ages 0-18 (early child, middle child, adolescent development) equivalent to Tennessee Tech University School of Human Ecology's courses: HEC 2200: Development of Young Children: Conception to age 6 and HEC 3500: Development Middle Childhood and Adolescence.

i. Lifespan development courses will not be considered, because in-depth knowledge of children and adolescents is required.

b. Anatomy and Physiology (minimum 3 credit hours)

c. Medical Terminology (minimum 1 credit hour)

Any deviations from this prerequisite coursework will be reviewed on a case-by-case basis.

Master of Science Degree, 36 credit hours

Type
Completion Requirement

Complete ALL of the following Courses:

- HEC5100 - Cultural Competence for Professionals
- HEC5500 - Foundations of Child Life
- HEC5510 - Advanced Child and Adolescent Development
- HEC6500 - Child Life Assessment
- HEC6510 - Play: Theory and Practice
- HEC6515 - Research in Child Life
- HEC6520 - Families in Healthcare
- HEC6525 - Trauma Informed Care for Helping Professions
- HEC6530 -
- HEC6535 - Adult Development and Psychosocial Care
- HEC6540 - Child Life Intervention
- HEC6550 - Professional Topics and Ethical Practice

Master of Science with Experiential Learning, 48 credit hours

Type
Completion Requirement

Complete ALL of the following Courses:

- HEC5100 - Cultural Competence for Professionals
- HEC5500 - Foundations of Child Life
- HEC5510 - Advanced Child and Adolescent Development
- HEC6500 - Child Life Assessment
- HEC6510 - Play: Theory and Practice
- HEC6515 - Research in Child Life
- HEC6520 - Families in Healthcare
- HEC6525 - Trauma Informed Care for Helping Professions
- HEC6530 -
- HEC6535 - Adult Development and Psychosocial Care
- HEC6540 - Child Life Intervention
- HEC6550 - Professional Topics and Ethical Practice
- HEC6565 - Child Life Clinical Seminar
- HEC6570 - Child Life Pre-Internship Experiential Learning
- HEC6575 - Child Life Clinical Experience

Note: Experiential learning credit hours are available for students choosing to pursue a child life practicum or pre-internship experience and/or clinical internship requiring university affiliation. The Child Life program director or clinical coordinator must approve organizations offering experiential learning.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not applicable

CHN-MS - Community Health and Nutrition, M.S.

Program Overview

Program Long Title
Community Health and Nutrition, M.S.

College/School
Agriculture and Human Ecology

Department(s)
Human Ecology

Catalog Full Description
The School of Human Ecology offers a Master of Science in Community Health and Nutrition. Coursework in this program is online. The Community Health and Nutrition program has been granted candidacy for 79 accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), as a Graduate program, making it appropriate for those students who wish to become registered dietitian/ nutritionists.

This program is also designed to offer additional professional training for various community health professionals, including those who are already credentialed registered dietitian/nutritionists, educators, nurses, and others interested in nutrition related health information.

This program includes an experiential learning component. If students meet the admission criteria specific to the program listed below, are admitted to the program, complete the coursework, and earn a Verification Statement, students are then eligible to sit for the registration exam for dietitians/nutritionists that is offered by the Commission on Dietetic Registration.

The M.S. in Community Health and Nutrition will provide graduate course work to two audiences: (1) credentialed Registered Dietitians who seek a M.S. degree only and (2) students who seek both credentialing as a Registered Dietitian/ Nutritionist (Graduate program, GP) and the M.S. Degree.

The M.S. degree only in Community Health and Nutrition is a 30-hour degree program.

The M.S. degree plus graduate program (GP) requires an additional 12 credit hours in experiential learning practicum courses. Each practicum course requires approximately 54 hours of experiential learning. In addition, approximately 30 hours of experiential learning is integrated into each didactic online course.

Admission Requirements

Admission Requirements
Degree only applicants must submit the following for admission consideration:

1. Online application for graduate admission and the nonrefundable application fee;

2. Official transcripts of undergraduate and graduate credit from all institutions attended;

3. Undergraduate degrees accepted include: nutrition, dietetics, public health, kinesiology, health sciences, nursing, psychology, human development and family studies, family and consumer sciences, and biobehavioral health. Other undergraduate degrees not specifically listed here will be reviewed based on transcript content;

4. Prerequisite undergraduate coursework must include an introductory nutrition course (equivalent to Tennessee Tech's HEC 2020 Nutrition for Health Sciences); one advanced nutrition course (higher level than introductory nutrition) must have a "B" or better in these two nutrition courses.

5. Undergraduate GPA of at least 3.0 on a 4.0 scale;

6. References (2)- when you submit your application provide contact information for two references. An email will then be sent to these references to complete an online recommendation form. At least one reference should be from a former professor/instructor. Your application is not completed until these recommendation forms are submitted by your references;

7. You will need to indicate on your graduate application if you are applying to only the MS Degree in Community Health and Nutrition or both the Degree and the optional Experiential Learning Track, the Experiential Learning Track has additional admission requirements;

8. Resume – upload your resume (no more than 2 pages);

9. Personal Statement- upload a separate document which includes the following: state why you have the abilities, experiences, skills and knowledge to succeed in our degree program. Your statement should demonstrate why you are interested in this graduate degree program and how it will help you meet career goals. Please limit your statement to 1,200 words or fewer and use 12-point font, single-spaced format.

Specifically address the following questions in your personal statement:

a. What are your professional goals; elaborate on future career plans and the motivation for pursuing a MS in Community Health and Nutrition

b. In what ways will the MS in Community Health and Nutrition build upon your current skill set

c. Why are you a good fit for this degree program

d. Elaborate on your unique story which motivates you to seek this graduate degree

Note: Applicants are selected on a competitive basis and, therefore, admission is not granted to all applicants who meet only the minimum requirements.

Application deadline for degree only seeking students varies based on the semester you wish to enroll. Application deadlines may be found on the College of Graduate Studies "How to Apply" section of the website.

Direct Admission to the degree only pathway:

Any Registered Dietitian/Nutritionist will be admitted with the following the verification of current registration status with the Commission on Dietetic Registration.

Additional Admissions Requirements, Experiential Learning Track

To apply to Experiential Learning Track, one must register for and complete the DICAS (Dietetics Inclusive Centralized Application Service) application: https://dicas.liaisoncas.com/applicant-ux/ https://dicas.cas.myliaison.com/applicant-ux/#/login.

In addition to the requirements for admission to the MS in Community Health and Nutrition Degree as stated above, applicants who want to also be admitted to the Experiential Learning Track must provide:

1. Evidence of Work/Volunteer Experience – documentation of 300 hours of work or volunteer experience completed within four years of application is preferred. Of the 300 hours, at least 200 hours must be in a nutrition- or dietetics-related field. You will be required to complete the Experiential Track Supplemental Form to document your experiences. This form will be uploaded with your Graduate application and is available on the College of Graduate Studies Online Forms webpage.

2. Prerequisite coursework- for applicants who do not have a Verification Statement from an ACEND accredited Didactic Program in Dietetics (DPD) the following prerequisite coursework must have been completed within five years from an accredited institution:

a. Introductory Nutrition course equivalent to Tennessee Tech's HEC 2020 Nutrition for Health Sciences

b. Advanced Nutrition course (higher level than Introductory Nutrition)

c. Organic Chemistry

d. Microbiology or Biochemistry

e. Experimental Foods, Food Preparation, Quantity Food Production, or Foodservice Management

Additionally, students must have a grade of "B "or better in each of the nutrition courses and a grade of "C" or better in the science courses.

3. DPD Verification Statement- for students with a bachelor's degree from an ACEND accredited Didactic Program in Dietetics (DPD), you will be required to upload your DPD Verification statement or an Intent to Complete form or letter from DPD Director stating courses to be completed with your Graduate application.

4. Personal Statement: in addition to the questions listed above for the Personal Statement, applicants for the Experiential Learning Track should include why they are pursuing the Registered Dietitian/Nutritionist (RDN) credential.

5. Candidates for admission to the Experiential Learning Track will be required to participate in a virtual (face to face) interview via a video conferencing platform

For questions regarding the DICAS application, contact the help center here: https://help.liaisonedu.com/DICAS_Applicant_Help_Center or call 617.612.2855. The Academy of Nutrition and Dietetics' website also has guidance for using DICAS.

The fee to submit a DICAS application is $50 for first submission, $25 for each additional submission. DICAS will open August 5, and applicants may apply at any time once the platform is open but no later than October 1 in the Fall and February 1 in the Spring.

Those interested in the supervised experiential learning necessary to become a registered dietitian/nutritionist must apply by October 1 deadline for a Fall start date the following year. If the cohort of 10 does not fill, applications can be submitted until February 1. All students who submit applications by October 1 will be notified by November 1 regarding their application status. All students who submit applications by February 1 will be notified by March 1 regarding their application status. Students must inform the program of their acceptance of an admission offer by November 15 or March 15, respectively.

Degree only students will not utilize DICAS but will instead apply through the College of Graduate Studies.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The M.S. in Community Health and Nutrition will provide graduate course work to two audiences: (1) credentialed Registered Dietitians who seek a M.S. degree only and (2) students who seek both credentialing as a Registered Dietitian/Nutritionist (Graduate program, GP) and the M.S. Degree.

The M.S. degree only in Community Health and Nutrition is a 30-hour degree program.

The M.S. degree plus Graduate program (GP) requires an additional 12 credit hours in experiential learning practicum courses. Each practicum course requires approximately 54 hours of experiential learning. In addition, approximately 30 hours of experiential learning is integrated into each didactic online course.

Community Health and Nutrition M.S. Degree Requirements

Type
Completion Requirement

Fall 1 Courses

Complete ALL of the following Courses:

- HEC5010 - Principles/Nutrition Research
- HEC5015 - Perspectives/Rural Comm Health
- HEC5025 - Cultural Practices Influencing Health and Nutrition

Spring 1 Courses

Complete ALL of the following Courses:

- HEC6201 - Comm Nutrition Prog/Serv
- HEC6225 - Adv Counseling Techniques
- PRST6540 - Health Informatics
  OR HEC6525 - Trauma Informed Care for Helping Professions
  OR HEC6640 - Review of Nutrition and Dietetics

Summer 1 Courses

Complete ALL of the following Courses:

- HEC6405 - Nutrition Across Life Cycle
- HEC6440 - Leadership/Nutrition Policy

Fall 2

Complete ALL of the following Courses:

- HEC6410 - Nutrition and Aging
- HEC6430 - Comm Health/Nutrition Capstone
- PRST6100 - Prof Environmntl Issues/Ethics

Additional Comments:
Total Degree Requirement: 30 hours

Community Health and Nutrition, (GP)

Type
Completion Requirement

Fall 1 Courses

Complete ALL of the following Courses:

- HEC5010 - Principles/Nutrition Research
- HEC5015 - Perspectives/Rural Comm Health
- HEC5025 - Cultural Practices Influencing Health and Nutrition

Spring 1 Courses

Complete ALL of the following Courses:

- HEC6201 - Comm Nutrition Prog/Serv
- HEC6225 - Adv Counseling Techniques
- HEC6250 - EXP Food Mgmt/Ext Care

Summer 1 Courses

Complete ALL of the following Courses:

- HEC6410 - Nutrition and Aging
- HEC6252 - EXP Clinical Nutrition

Fall 2 Courses

Complete ALL of the following Courses:

- HEC6405 - Nutrition Across Life Cycle
- HEC6440 - Leadership/Nutrition Policy
- HEC6251 - EXP Community Nutrition

Spring 2 Courses

Complete ALL of the following Courses:

- HEC6430 - Comm Health/Nutrition Capstone
- HEC6253 - EXP Practicum
- HEC6640 - Review of Nutrition and Dietetics

Additional Comments:

Total Degree Requirement: 42 hours

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-ABAS - Curriculum and Instruction, Applied Behavior Analysis Concentration, Ed.S.

Program Overview

Program Long Title

Curriculum and Instruction, Applied Behavior Analysis Concentration, Ed.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

https://www.tntech.edu/education/ci/ graduate.php

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

- **Core Concentration Area Coursework:** 21
- **Advisor Guided Electives:** 3
- **Research Coursework:** 6
- **Total Degree Requirements:** 30 hours

*All licensure components involve recommendations from the Office of Teacher Education.

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

A minimum of 30 semester hours beyond the masters degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no

course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional working with other. The program will therefore be tailored to serve the needs and objectives of the individual student.

Although a thesis is not required in the specialist program, the student is expected to become well acquainted with research in the field of specialization and to demonstrate competence in research methodology. In order to satisfy these expectations, the student must earn at least three (3) semester hours in courses of a laboratory and/or field experience nature and three (3) semester hours in an independent study project.

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (21 hours)

Complete ALL of the following Courses:

- EDUB7002 - Behavior Assessment
- EDUB7003 - Behavior Intervention
- EDUB7004 - Theory & Phil in Bhav Analysis
- EDUB7005 - Organizational Behavior Mngmt
- EDUB7006 - Ethics in ABA
- EDUB7008 - Topics/Applied Behavior Analys

Practicum and Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (3 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

CI-EDCU - Curriculum and Instruction, Curriculum Concentration, M.A.

Program Overview

Program Long Title
Curriculum and Instruction, Curriculum Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs
https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework: 9 hours**
- **Advisor Guided Electives: 18 hours**
- **Research Coursework: 6 hours**
- **Total Degree Requirements: 33 hours**

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 9 hours
- Advisor Guided Electives: 18 hours
- Research Coursework: 6 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (9 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- FOED6020 - Perspectives-American Edu
- FOED6820 - Applied Educational Assessment

Practicum and Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (18 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music

- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 33 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

CI-EDEC - Curriculum and Instruction, Early Childhood Education Concentration, M.A.

Program Overview

Program Long Title

Curriculum and Instruction, Early Childhood Education Concentration, M.A.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs

https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 15 hours
- **Research Coursework:** 6 hours
- **Advisor Guided Electives:** 12 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75. Teacher licensure standards may require a separate minimum GPA for licensure.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 12 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- ECED7210 - Early Childhood Curr
- ECED7220 - Early Chld Instr/Materials
- FOED6820 - Applied Educational Assessment
- SPED6010 - Surv-Disab Char,Proc,Meth/SPED
- SPED7200 - Tchg Indiv/Autism Spec Disorde

Practicum and Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (12 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 33 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

CI-ESCI - Curriculum and Instruction, Exercise Science Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Exercise Science Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 21 hours
- **Research Coursework**: 3 hours *
- **Advisor Guided Electives:** 6 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 21 hours
- Research Coursework: 3 hours *
- Advisor Guided Electives: 6 hours
- Total Degree Requirements: 30 hours

* Student must take EXPW6510 - Missing course beforeCUED7910 Adv Research Project in ED if no Research Methods or equivalent in Exercise Science on transcript(in place of one 3 hour elective course)

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (21 hours)

Complete ALL of the following Courses:

- CUED7010 - Learning Theories
- FOED7020 - Philosophy & Public Policy
- EXPW6600 - Special Topics
- EXPW6440 - Physiology of Exercise
- EXPW7000 - Current Issues in EXPW/EDUH
- EXPW7010 - Pedagogical Theory of Phys Ed
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (6 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education

- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-ESCU - Curriculum and Instruction, Curriculum Concentration, Ed.S.

Program Overview

Program Long Title

Curriculum and Instruction, Curriculum Concentration, Ed.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 6-9 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 18-21 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's or higher degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 6-9 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 18-21 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (6-9 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- FOED7020 - Philosophy & Public Policy
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (18-21 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives (18-21 hours)
Total Degree Hours: 30 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-ESEC - Curriculum and Instruction, Early Childhood Education Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Early Childhood Education Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional working with other. The program will therefore be tailored to serve the needs and objectives of the individual student.

Although a thesis is not required in the specialist program, the student is expected to become well acquainted with research in the field of specialization and to demonstrate competence in research methodology. In order to satisfy these expectations, the student must earn at least three (3) semester hours in courses of a laboratory and/or field experience nature and three (3) semester hours in an independent study project.

Degree Requirements

- **Core Concentration Coursework:** 12-15 hours
- **Practicum and Research Coursework**: 6 hours
- **Advisor Guided Electives:** 9-12 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 12-15 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 9-12 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (12-15 hours)

Complete ALL of the following Courses:

- ABAP7120 - Behavior Support/Families
- SPED6050 - Intro/Applied Behavior Analysi
- READ7020 - Family Literacy (Inactive)
- CUED6010 - Curriculum Development & Evaluation
- FOED7020 - Philosophy & Public Policy

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Practicum and Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography
- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (9-12 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership

- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-ESEL - Curriculum and Instruction, Elementary Education Concentration, Ed.S.

Program Overview

Program Long Title

Curriculum and Instruction, Elementary Education Concentration, Ed.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 9-12 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 15-18 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 9-12 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 15-18 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (9-12 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- CUED7010 - Learning Theories
- FOED7020 - Philosophy & Public Policy
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (15-18 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-ESSE - Curriculum and Instruction, Secondary Education Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Secondary Education Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 9-12 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 15-18 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 9-12 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 15-18 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (9-12 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- PSY7200 - Adv Educational Psychology
- FOED7020 - Philosophy & Public Policy
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (15-18 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education

- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

CI-ESTE - Curriculum and Instruction, Educational Technology Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Educational Technology Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education
Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements
A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 12-15 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 12-15 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:
- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:
- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:
International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 12-15 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 12-15 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (12-15 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- CUED6440 - Emerging Technologies in Education
- CUED6460 - Constructive Strategies/Classroom Instruction
- CUED7530 - Design Integrated Technical Environments
- CUED7801 - Lab/Field Experience in Education/Technology

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (12-15 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-LIT-EDS - Curriculum and Instruction, Literacy Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Literacy Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Although a thesis is not required in the specialist program, the student is expected to become well acquainted with research in the field of specialization and to demonstrate competence in research methodology. In order to satisfy these expectations, the student must earn at least three (3) semester hours in courses of a laboratory and/or field experience nature and three (3) semester hours in an independent study project.

Degree Requirements

- **Core Concentration Coursework:** 15 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 12 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall GPA of 3.0 or above earned in a Master's or higher degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 12 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- READ7340 - Literacy in the Elementary School
- READ7350 - Literacy in the Secondary School
- READ7310 - Assessment & Intervention in Literacy
- ELED7400 - The Literacy Lang Arts Program
- READ7500 - Leadership in Literacy Edu

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

TOTAL DEGREE REQUIREMENTS: 30 HOURS

Advisor Guided Electives*(12 hours)

*Note: Select from the following additional endorsement areas: Library Information Specialist, English as a Second Language, Computer Science Education or other endorsement areas.

Earn at least 12 credits

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

CI-LIT-MA - Curriculum and Instruction, Literacy Concentration, M.A.

Program Overview

Program Long Title
Curriculum and Instruction, Literacy Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs

https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 15 hours
- **Research Coursework:** 6 hours
- **Advisor Guided Electives:** 12 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 12 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- READ6340 - Literacy in Elementary School
- READ6350 - Literacy in Secondary School
- READ6310 - Asmnt/Intervention-Literacy
- ELED7400 - The Literacy Lang Arts Program
- READ7500 - Leadership in Literacy Edu

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research **OR** CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum **OR** CUED6315 - Qualitative Problems in Curriculum

TOTAL DEGREE REQUIREMENTS: 33 HOURS

Advisor Guided Electives*(12 hours)

*Note: Select from the following additional endorsement areas: Library Information Specialist, English as a Second Language, Computer Science Education or other endorsement areas.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

CI-LSC - Curriculum and Instruction, Library Science Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, Library Science Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education Degree
https://www.tntech.edu/education/ci/graduate.php

- **Core Concentration Coursework:** 15 credit hours
- **Advisor Guided Electives:** 12 credit hours
- **Research Coursework:** 3 credit hours
- **Total Degree Requirements:** 30 credit hours
- **Total Degree Requirements and Licensure*:** VARIES

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Masters degree or higher program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Practicum and Research Courses: 3 hours
- Advisor Guided Electives: 12 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- LSCI6010 - Class & Catalog Of Med & Mtrl
- LSCI7000 - Info Literacy Tools/Services
- LSCI7030 - Admin of the School Library
- LSCI7500 - Contemporary Children's and Young Adult Literature
- CUED7300 - AI for Educators

Practicum and Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives* (12 hours)

*Note: Select from the following additional endorsement areas: Reading Specialist, English as a Second Language, Computer Science Education or other endorsement areas.

Earn at least 12 credits
TOTAL DEGREE REQUIREMENTS: 30 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

CI-LSCI - Curriculum and Instruction, Library Science Concentration, M.A.

Program Overview

Program Long Title
Curriculum and Instruction, Library Science Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs

https://www.tntech.edu/education/ci/graduate.php

- **Core Concentration Coursework:** 15 hours
- **Research Coursework:** 6 hours
- **Advisor Guided Electives:** 12 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 12 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- LSCI6010 - Class & Catalog Of Med & Mtrl
- LSCI7000 - Info Literacy Tools/Services
- LSCI7030 - Admin of the School Library
- LSCI7500 - Contemporary Children's and Young Adult Literature
- CUED7300 - AI for Educators

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

TOTAL DEGREE REQUIREMENTS: 33 HOURS

Advisor Guided Electives* (12 hours)

*Note: Select from the following additional endorsement areas: Reading Specialist, English as a Second Language, Computer Science Education or other endorsement areas.

Earn at least 12 credits

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

CI-SPED - Curriculum and Instruction, Special Education Concentration, M.A.

Program Overview

Program Long Title
Curriculum and Instruction, Special Education Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs
https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 12 hours
- **Research Coursework:** 6 hours
- **Advisor Guided Electives:** 15 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 12 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 15 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (12 hours)

Complete ALL of the following Courses:

- SPED6010 - Surv-Disab Char,Proc,Meth/SPED
- SPED6040 - Classrm Applications using ABA
- SPED6070 - Indiv. Educational Planning
- FOED6820 - Applied Educational Assessment

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (15 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology

- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
Total Degree Requirements: 33 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

CI-SPES - Curriculum and Instruction, Special Education Concentration, Ed.S.

Program Overview

Program Long Title

Curriculum and Instruction, Special Education Concentration, Ed.S.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 12 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives:** 15 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 12 hours
- Research Coursework: 3 hours
- Advisor Guided Electives: 15 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (12 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- FOED7020 - Philosophy & Public Policy
- SPED6070 - Indiv. Educational Planning
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives (15 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives

- **Total Degree Requirements:** 30 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-STE - Curriculum and Instruction, STEM Education Concentration, Ed.S.

Program Overview

Program Long Title
Curriculum and Instruction, STEM Education Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Specialist in Education

Curriculum and Instruction - Graduate Programs (tntech.edu)

Specialist in Education Degree Requirements

A minimum of 30 semester hours beyond the master's degree, in approved upper-level courses, will be required in the Ed. S. program. At least 15 semester hours must be taken in courses numbered at the 7000 level; no course below the 6000 level shall be counted for credit unless written approval is obtained from the students advisory committee, the chairperson of the department in which the student is majoring, and the Associate Dean of the College of Graduate Studies.

The program of study leading to the Specialist in Education degree (Ed.S.) will be designed for each student so as to achieve proper balance between the experiences required for training as a specialist and those required for development as a professional. The program will therefore be tailored to serve the needs and objectives of the individual student.

Degree Requirements

- **Core Concentration Coursework:** 9-12 hours
- **Research Coursework**: 3 hours
- **Advisor Guided Electives in STEM courses (**EDUS7500 STEM Education Foundations-EDUS7580 STEM Education Field Study**):** 6 hours
- **Advisor Guided Electives in STEM Education & Technology Courses:** 9-12 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 3.0 or above earned in a Master's degree program from an accredited institution.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the graduate GPA is lower than 3.0.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 9-12 hours
- Practicum and Research Coursework: 3 hours
- Advisor Guided Electives in STEM courses (EDUS7500 STEM Education Foundations-EDUS7580 STEM Education Field Study): 6 hours
- Advisor Guided Electives in STEM Education & Technology Courses: 9-12 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (9-12 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- EDUS7500 - STEM Education Foundations
  OR EDUS7570 - STEM Edu Policy & Leadership
- CUED7510 - Instructional Design Foundations
  OR CUED7520 - Teaching and Learning Online
  OR CUED7530 - Design Integrated Technical Environments
- CUED7801 - Lab/Field Experience in Education/Technology

CUED 6010 - Curriculum Development and Evaluation Cr. 3. *

*If taken at the MA level, student will select another Advisor Guided Elective.

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Advisor Guided Electives in STEM Education & Technology Courses (9-12 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy

- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives in STEM Education & Technology Courses: 9-12 hours

Advisor Guided Electives in STEM Courses (EDUS7500-EDUS7580) (6 hours)

Students will select 6 credit hours of coursework from the following STEM Courses:

EDUS7500-EDUS7580

Advisor Guided Electives in STEM Courses (EDUS7500-EDUS7580) (6 hours)
Total Degree Requirements: 30 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CI-STEM - Curriculum and Instruction, STEM Education Concentration, M.A.

Program Overview

Program Long Title

Curriculum and Instruction, STEM Education Concentration, M.A.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

Master of Arts in Curriculum and Instruction

Degree Programs

https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 15 hours
- **Advisor Guided Electives:** 12 hours
- **Research Coursework:** 6 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 15 hours
- Advisor Guided Electives: 12 hours
- Research Coursework: 6 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (15 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- FOED6820 - Applied Educational Assessment
- EDUS7500 - STEM Education Foundations
  OR EDUS7570 - STEM Edu Policy & Leadership
- CUED6440 - Emerging Technologies in Education
  OR CUED6450 - Immersive Technologies for Instructional Design
- ELED6400 - Adv Studies/Elem Sci Edu
  OR ELED6500 - Diag & Rem Tech Elem Math
  OR SEED5122 - Mtrls/Meth-Tch Math
  OR SEED5123 - Mtrls/Meth-Tch Sciences

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (12 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
Total Degree Requirements: 33 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

CMA-CER - Cyber Management and Analytics Certificate, M.B.A.

Program Overview

Program Long Title
Cyber Management and Analytics Certificate, M.B.A.

College/School
Business

Department(s)
Business

Catalog Full Description
Cybersecurity has become a global concern requiring the utmost attention from all sectors of academia, government, and industry. Despite the growing demand and tremendous job opportunities in the industry, there is a shortage of skilled professionals regionally, nationally, and globally. This certificate aims to help address that talent gap by providing students with basic managerial and business knowledge of IT analytics and data resources management, policy compliance and ethics, strategic management of personnel and network security, risk detection and mitigation, cyber audit, and IT project management.

MBA with a Certificate

- **MBA Core Required Courses:** 24 hours
- **Certificate Courses*:** 15 hours
- **Total:** 39 hours

*2 MBA electives courses (6 hours) count toward the 5 certificate courses (15 hours) required.

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

Note: Participants from the Graduate School of Banking at LSU or the Barrette School of Banking may, upon approval, substitute 6 hours of course credit towards the TTU MBA program.

Admission Requirements

Admission Requirements

MBA Admission Requirements
Tennessee Tech's AACSB-accredited Master of Business Administration (MBA) program maintains an admission process that considers applicants' total academic and work-life achievements. Admission is open to qualified students with a bachelor's degree from a regionally accredited institution. No GMAT or GRE test score is required to apply. Applications are accepted for fall, spring, and summer semester admission. Application deadlines are listed on the University's Graduate Studies webpage.

To Apply: Visit the online application portal, create an account, complete the application, and upload the following required documents

• A current resume, containing dates for all work experience and degrees received.
• Official transcripts from all institutions where classes were taken and/or a degree received.

Factors that may be considered in the admission decision are:

• Undergraduate GPA*
• Professional Work Experience◈
• Graduate Degrees and Relevant Achievements[1]

◈Professional work experience is post-undergraduate professional or military experience and should be described on the applicant's resume. [1]Graduate degrees (e.g., MD, JD, MS, MA, PharmD, etc.) should be documented on the applicant's transcript(s) and denoted on the resume.

Timely application is important. Applicants are advised to submit their completed application and all required documentation early to be given full consideration for upcoming semesters. Visit the Graduate Admissions Calendar for a complete list of application deadlines.

Important to Note: Additional information is required by Graduate Studies for international students (see Graduate Studies website). A score of 4.0 on the TOEFL or a band score of 6.0 on the IELTS is required for all students whose native language is other than English. Students must be proficient in the use of word processing, spreadsheet, and presentation software including the integration of all three of the above.

Academic Background
The Tennessee Tech MBA welcomes applicants from all academic majors. An undergraduate business degree or prerequisite business courses are not required to be admitted to the program. In lieu of prerequisite coursework, the program provides a self-paced orientation experience that allows students to start the MBA with foundational knowledge. Further details about orientation arrive to accepted students in their admissions information packet.

Standing Upon Admission
Students may be admitted in Full Standing or with Provisional Standing. Admission in Full gives students the greatest flexibility in taking MBA courses. Students admitted provisionally must take ECON 6050 within the first nine (9) hours of their program and maintain a 3.0 GPA on the first nine (9) hours of MBA core content completed. Upon meeting these requirements, the provisional student will be moved to Full Standing.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- MBA Core Required Courses: 24 hours
- Certificate Courses*: 12 hours
- Total: 36 hours

*2 MBA electives courses (6 hours) count toward the 4 certificate courses (12 hours) required.

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

Note: Participants from the Graduate School of Banking at LSU or the Barrette School of Banking may, upon approval, substitute 6 hours of course credit towards the TTU MBA program.

Certificate Requirements

Type
Completion Requirement

Certificate Requirements

Complete ALL of the following Courses:

- DS6540 - Network Security
- DS6570 - Cyber Security Mgmt.
- DS6550 - Database Management
- EMGT6210 - Project Management for Engineers

OR ACCT6290 - Essential Tech for Accountants
- DS6530 - Advanced Data Analytics
- MAcc students ACCT6290 Essential Tech for Accountants - Essential Tech for Accountants Cr. 2.

Total Hours: 14 or 15

MBA degree requirements

Type
Completion Requirement

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast Track allows selected undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MBA program. Once admitted to Fast Track, the student will be allowed to enroll in appropriate MBA courses in the senior year with the consent of the student's undergraduate advisor and the director of Graduate Business Programs. Participation does not change the requirements for the student's undergraduate or MBA program.

Admission to Fast-Track

Minimum requirements for admission are:

• 90 hours of undergraduate work or senior standing and successful completion of any required prerequisites

• Recommendation of a faculty member in the student's major

• Overall GPA of 3.2 and GPA of 3.2 in the student's major

• Program participants should consult with their future MBA advisor regarding appropriate graduate courses to take during their senior year.

• All requirements for full admission to Graduate School must be met upon graduation.

• Students who do not receive a grade of B or better in the fast-tracked course will be advised to withdraw from the Fast Track program and complete their B.S. degree as normal.

Fulfilling the above minimum requirements does not guarantee acceptance into the Master of Business Administration Fast Track program or the MBA program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

COSU-PHD - Counseling and Supervision, Ph.D.

Program Overview

Program Long Title
Counseling and Supervision, Ph.D.

College/School
Education

Department(s)
Counseling and Psychology

Catalog Full Description

About The Program

The Ph.D. in Counseling and Supervision is a terminal degree. The department offers admission to applicants who appear to have the highest potential for success and the appropriate disposition for counseling and supervision in the Ph.D. program.

The Ph.D. in Counseling and Supervision is a 60-credit hour doctoral degree program. The program consists of three-degree components: Counseling and Supervision Core Coursework; Research Coursework; and Dissertation Research.

- **Counseling and Supervision Core Coursework**: 21 hours
- **Research Core Coursework:** 27 hours
- **Dissertation Research**: 12 hours
- **Total Degree Requirements:** 60 hours

Admission Requirements

Admission Requirements

Admission Requirements

The recommended admission requirements are:

- A minimum 3.5 grade point average (GPA) from an accredited master's level program in a counseling or closely related program. Preference will be given to individuals who graduated from a CACREP-accredited program.
- Official transcripts from an accredited undergraduate and graduate institution, as well as transcripts from any additional institutions of higher education attended.
- Three letters of recommendation from either former faculty members or professionals who can assess the applicant's academic ability, clinical skills, research potential, and readiness for doctoral study.
- **Statement of Purpose** – A written statement (typically 1,000–1,500 words) outlining the applicant’s professional background, research interests, career goals, and reasons for pursuing doctoral study in counseling and supervision. The statement should also address how the applicant’s goals align with the mission and strengths of the program.
- **Curriculum Vitae (CV) or Résumé** – A detailed CV outlining educational background, counseling and supervision experience, research involvement, teaching experience, leadership roles, and professional affiliations.
- **Writing Sample** – Applicants must submit a recent academic paper, thesis excerpt, or published article that demonstrates their research and writing abilities relevant to doctoral-level work.
- **Optional GRE scores**- While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate-level academic work.

- An English proficiency equivalent of Level 9 in FLS (applicable to those applicants from countries in which the official language is other than English).
- Successful interview with the faculty review committee with a focus on dis-positional congruence, personal intent, and professional aspirations.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Ph.D. in Counseling and Supervision is a 60 credit hour doctoral degree program. The program consists of three degree components: Counseling and Supervision Core Coursework; Research Coursework; and Dissertation Research.

- Counseling and Supervision Core Coursework: 21 hours
- Research Core Coursework: 27 hours
- Dissertation Research: 12 hours
- Total Degree Requirements: 60 hours

Ph.D. in Counseling and Supervision

Type
Completion Requirement

Counseling and Supervision Core Coursework (21 hours)

Complete ALL of the following Courses:

- COUN7320 - Advanced Group Counseling/Addiction & Specialized Populations
- COUN7370 - Supervision & Prof Issues in Counseling
- COUN7400 - Advanced Counseling Theories and Techniques
- COUN7500 - Research/Scholarship/Publication
- COUN7610 - Teaching in Counselor ED
- COUN7700 - Advanced Multicultural Counseling: Leadership/Advocacy
- COUN7840 - Regional Mental Health/Addiction Services

Research Core Coursework (27 hours)

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
- PSY6930 - Interpret/Apply Psy Rsrch
- PSY7310 - Adv Educational Statistics
- COUN7510 - Counseling Administration/Program Evaluation
- COUN7730 - Qualitative Research Methods/Counseling
- COUN7770 - Scale Constr. & Psychometrics
- COUN7850 - Advanced Res Methods & Design
- COUN7820 - Doctoral Internship

COUN7820 Doctoral Internship: *6 credit hour requirement. Students must take COUN 7820 over two semesters (6 credit hours) rather than one (3 credit hours).

Advisor Guided Electives

Research core requirements include an option of one elective. Electives may be taken in the COUN or PSY areas at the 6000 or 7000 level.

Dissertation Research (12 hours)

Twelve (12) credit hour minimum. Ph.D. candidates may take more than the 12 credit hour minimum as necessary to successfully complete their dissertation research.

Complete ALL of the following Courses:

- COUN7990 - Dissertation Research

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available

CP-CMHC - Counseling and Psychology, Clinical Mental Health Counseling Concentration, Ed.S.

Program Overview

Program Long Title
Counseling and Psychology, Clinical Mental Health Counseling Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Catalog Full Description

Concentration Requirements

The Ed.S. in Clinical Mental Health Counseling consists of 15 guided electives plus 15 credit hours of concentration course blocks as defined below.

Students who have completed a 60 hour Master's degree in counseling only need to complete one of the 18 hour blocks (listed on the requirement tab) that they have not already completed in their Master's degree.

- **Required Concentration Courses:** 15 hours
- **Advisor Guided Electives:** 15 hours
- **Total Degree Requirement:** 30 hours

Admission Requirements

Admission Requirements

Ed.S. Degree Admission Criteria
Students pursuing graduate study in the Department of Counseling and Psychology can select from among several concentrations that are designed to lead to licensure in the State of Tennessee or that lead to Non licensure degrees.

Admission Criteria
The department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration.

The minimum admission requirements are:

- A Master's degree from an accredited institution.
- Satisfactory graduate grade point average of 3.5 on a 4.0 scale.
- Enough graduate training in psychology to do advanced graduate work in the chosen concentration.
- Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.
- Successful interview with the faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.
- While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate level academic work.
- Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience.
- Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency
All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Concentration Requirements

Type
Completion Requirement

Required Concentration Courses (15 hours)

Complete ALL of the following Courses:
- COUN6370 - Family Counseling
- COUN6460 - Addiction Counseling
- COUN6820 - Internship/Mental Health Counseling
- COUN6821 - Intrnship/Mntl Hlth Counseling
- COUN7600 - Diagnosis and Treatment

Advisor Guided Electives

Students, at the advice of their advisor and/or committee, may take 5000, 6000, or 7000 level courses from the following subject list.

- AGED - Agriculture Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- COUN - Counseling
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education

- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives: 15 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CP-CMHC - Counseling and Psychology, Clinical Mental Health Counseling Concentration, M.A.

Program Overview

Program Long Title

Counseling and Psychology, Clinical Mental Health Counseling Concentration, M.A.

College/School

Education and Human Sciences

Department(s)

Counseling and Psychology

Catalog Full Description

The Master of Arts degree in Counseling and Psychology is designed to prepare students for exciting and challenging careers. Concentration areas include: Clinical Mental Health Counseling, Psychology, School Counseling, and School Psychology. The program consists of core counseling courses, core non-counseling courses, guided electives and core concentration courses.

The Clinical Mental Health Counseling Concentration and the School Counseling Concentration consists of 60 hours. Students may also pursue Dual Licensure by adding an 18-hour Ed.S. degree in Clinical Mental Health Counseling or School Counseling.

Clinical Mental Health Counseling Concentration Requirements:

• Counseling Core Required Courses: 30 hours
• Non-Counseling Core Required Courses: 6 hours
• Advisor Guided Electives: 9 hours
• Concentration Core Courses: 15 hours
• Total Degree Requirement: 60 hours

Admission Requirements

Admission Requirements

Master of Arts Degree Admission Criteria

Students pursuing graduate study in the Department of Counseling and Psychology can select from among several concentrations that are designed to lead to licensure in the State of Tennessee or that lead to non-licensure degrees.

Admission Criteria

The Department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration. The recommended admission requirements are:

1. A bachelor's degree from an accredited institution.

2. Satisfactory undergraduate grade point average, a minimum of 3.0 on a 4.0 scale.

3. Enough undergraduate training in psychology or related work experience to do graduate work in the chosen concentration.

4. Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.

5. Successful interview with faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.

6. While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate-level academic work.

Satisfying recommended standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the College of Graduate Studies and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine (9) hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine (9) semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency

All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Program Requirements

Type
Completion Requirement

Counseling Core Required Course (30 hours)

Complete ALL of the following Courses:

- COUN6000 - Counseling Across the Lifespan
- COUN6300 - Introduction to Counseling: Foundations, Ethics and Legal Issues
- COUN6320 - Group Counseling
- COUN6360 - Counseling Skills
- COUN6362 - Counseling Theories
- COUN6380 - Multicultural Counseling
- COUN6410 - Career Counseling/Development
- COUN6670 - Assessment in Counseling
- COUN6680 - Trauma/Grief/Crisis Counseling
- COUN6800 - Practicum

Non-Counseling Core Required Courses (6hours)

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
- PSY6930 - Interpret/Apply Psy Rsrch

Advisor Guided Electives (9 hours)

Selection of appropriate course (PSY5XXX-PSY7XXX, and COUN 5XXX-COUN7XXX) will be made in consultation with the student's advisory committee and or the graduate coordinator.

Concentration Core Requirements (15 hours)

Complete course(s) and earn 15 or more credits from the following:

- COUN6370 - Family Counseling
- COUN6460 - Addiction Counseling
- COUN6820 - Internship/Mental Health Counseling
- COUN6821 - Intrnship/Mntl Hlth Counseling
- COUN7600 - Diagnosis and Treatment

Additional Comments:

Course Substitutions: Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework in Counseling and Psychology while still pursuing their undergraduate degree and to transition to the Counseling and Psychology graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University. The minimum admission requirements for participating in the C&P Fast Track Program are:

• Enrolled as a Tennessee Tech undergraduate Psychology major with senior standing.

• Overall GPA of at least 3.0 or better.

• Approval from the student's undergraduate advisor and two other upper division psychology faculty at TTU who have been the student's instructor for at least one course at TTU.

• Course approval from C&P graduate faculty or graduate faculty advisor.

• All requirements for full admission to Graduate School must be met upon graduation. Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

CP-EDSC - Counseling and Psychology, School Counseling Concentration, M.A.

Program Overview

Program Long Title
Counseling and Psychology, School Counseling Concentration, M.A.

College/School
Education

Department(s)
Counseling and Psychology

Catalog Full Description
The Master of Arts degree in Counseling and Psychology is designed to prepare students for exciting and challenging careers. Concentration areas include: Clinical Mental Health Counseling, Psychology, School Counseling, and School Psychology. The program consists for core counseling courses, core Non counseling courses, guided electives and core concentration courses. Clinical Mental Health Concentration and the School Counseling Concentration consists of 60 hours. Students may also pursue Dual Licensure by adding an 18-hour Ed.S. degree in Clinical Mental Health Counseling or School Counseling.

School Counseling Concentration Requirements:

- **Counseling Core Required Courses:** 30 hours
- **Non-Counseling Core Required Courses:** 6 hours
- **Advisor Guided Electives:** 9 hours
- **Concentration Core Courses:** 15 hours
- **Total Degree Requirement:** 60 hours

Admission Requirements

Admission Requirements
The Department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration. The recommended admission requirements are:

1. A bachelor's degree from an accredited institution.

2. Satisfactory undergraduate grade point average, a minimum of 3.0 on a 4.0 scale.

3. Enough undergraduate training in psychology or related work experience to do graduate work in the chosen concentration.

4. Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.

5. Successful interview with faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.

6. While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate-level academic work.

Satisfying recommended standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the College of Graduate Studies and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine (9) hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine (9) semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Degree Requirements

Type
Completion Requirement

Counseling Core Required Courses (30 hours)

Complete ALL of the following Courses:

- COUN6000 - Counseling Across the Lifespan
- COUN6300 - Introduction to Counseling: Foundations, Ethics and Legal Issues
- COUN6320 - Group Counseling
- COUN6360 - Counseling Skills
- COUN6362 - Counseling Theories
- COUN6380 - Multicultural Counseling
- COUN6410 - Career Counseling/Development
- COUN6670 - Assessment in Counseling
- COUN6680 - Trauma/Grief/Crisis Counseling
- COUN6800 - Practicum

Non-Counseling Core Required Courses (6 hours)

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
- PSY6930 - Interpret/Apply Psy Rsrch

Advisor Guided Electives (9 hours)

Selection of appropriate courses (PSY 5XXX-PSY 7XXX, and COUN 5XXX-COUN 7XXX) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Concentration Core Courses (15 hours)

School Counseling follows the same Counseling Core Course Requirements, Non-Counseling Core Requirements, and Advisor Guided Electives as listed for Clinical Mental Health Counseling. The two programs differ by concentration courses.

Complete ALL of the following Courses:

- COUN6330 - Organization/Administration-School Counseling Program
- COUN6335 - Professional Issues in Education Settings
- COUN6385 - Counseling Children/Adolescent
- COUN7830 - Internship/School Counseling
- COUN7830 - Internship/School Counseling

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework in Counseling and Psychology while still pursuing their undergraduate degree and to transition to the Counseling and Psychology graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University. The minimum admission requirements for participating in the C&P Fast Track Program are:

• Enrolled as a Tennessee Tech undergraduate Psychology major with senior standing.

• Overall GPA of at least 3.0 or better.

• Approval from the student's undergraduate advisor and two other upper division psychology faculty at TTU who have been the student's instructor for at least one course at TTU.

• Course approval from C&P graduate faculty or graduate faculty advisor.

• All requirements for full admission to Graduate School must be met upon graduation. Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

CP-ESSC - Counseling and Psychology, School Counseling Concentration, Ed.S.

Program Overview

Program Long Title

Counseling and Psychology, School Counseling Concentration, Ed.S.

College/School

Education and Human Sciences

Department(s)

Counseling and Psychology

Catalog Full Description

Concentration Requirements

The Ed.S. program in School Counseling consists of 15 guided electives plus 15 credit hours in the required concentration courses. Students who have completed a 60 hour Master’s program in counseling only need to complete the 18 credit hours below that they have not already completed in their Master’s degree.

- **Required Concentration Courses:** 15 hours
- **Advisor Guided Electives:** 15 hours
- **Total Requirements:** 30 hours

Admission Requirements

Admission Requirements

Students pursuing graduate study in the Department of Counseling and Psychology can select from among several concentrations that are designed to lead to licensure in the State of Tennessee or that lead to Non licensure degrees.

Admission Criteria

The department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration.

The minimum admission requirements are:

- A Master's degree from an accredited institution.
- Satisfactory graduate grade point average of 3.5 on a 4.0 scale.
- Enough graduate training in psychology to do advanced graduate work in the chosen concentration.
- Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.
- Successful interview with the faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.
- While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate level academic work.

  Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience.

  Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit

students to a maximum of nine hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency

All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Concentration Requirements

Type
Completion Requirement

Required Concentration Courses (15 hours)

Complete ALL of the following Courses:

- COUN6385 - Counseling Children/Adolescent
- COUN6330 - Organization/Administration-School Counseling Program
- COUN6335 - Professional Issues in Education Settings
- COUN6830 - Internship/School Counseling
- COUN7830 - Internship/School Counseling

Advisor Guided Electives

Students, at the advice of their advisor and/or committee, may take 5000, 6000, or 7000 level courses from the following subject list.

- AGED - Agriculture Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- COUN - Counseling
- PSY - Psychology
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives: 15 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CP-PSYC - Counseling and Psychology, Psychology Concentration, M.A.

Program Overview

Program Long Title
Counseling and Psychology, Psychology Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Catalog Full Description
A primary purpose of the department is to offer strong academic programs in the preparation for a career in counseling and psychology. Graduate programs are offered at the Master of Arts, Specialist in Education, and Ph.D. levels. The MA and Ed.S. in Counseling and Psychology offer a number of concentrations available in each of these programs.

The degree programs in Counseling and Psychology each consist of a counseling concentration, appropriate cognate area, and a research component. Concentrations are available in: • Psychology • Clinical Mental Health Counseling (Master's level only) • School Counseling • School Psychology

The department also offers a Ph.D. in Counseling and Supervision. • Counseling and Supervision, Ph.D. Counseling and Psychology

The M.A. in Counseling and Psychology includes a concentration in Psychology. Students will choose between Plan I or Plan II. This program consists of 30 hours.

Plan I

- **PSY 5000 level Advisor Guided Electives:** 0-9 hours
- **PSY 6000/7000 level Advisor Guided Electives:** 6-21 hours
- **Plan I Course Requirements (listed below):** 9 hours
- **Total Degree Requirements:** 30 hours

Plan II - Thesis

- **PSY 5000 level Advisor Guided Electives:** 0-9 hours
- **PSY or COUN 6000/7000 level Advisor Guided Electives:** 6-21 hours
- **Plan II Course Requirements (listed below):** 6 hours
- **Research and Thesis** PSY6990 Research and Thesis**:** 6-9 hours
- **Total Degree Requirement:** 30 hours

Admission Requirements

Admission Requirements
The Department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration. The recommended admission requirements are:

1. A bachelor's degree from an accredited institution.

2. Satisfactory undergraduate grade point average, usually a minimum of 3.0 on a 4.0 scale.

3. Enough undergraduate training in psychology or related work experience to do graduate work in the chosen concentration.

4. Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.

5. Successful interview with faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.

6. While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate-level academic work.

Satisfying recommended standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the College of Graduate Studies and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine (9) hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine (9) semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Degree Requirements

Type
Completion Requirement

Advisor Guided Electives (9 hours)

Selection of appropriate courses (PSY 5XXX-PSY 7XXX, and COUN 5XXX-COUN 7XXX) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Plan I Course Requirements

Fulfill ALL of the following requirements:

Course Requirements

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
  OR PSY7310 - Adv Educational Statistics
- PSY6930 - Interpret/Apply Psy Rsrch

AND

Advisor Guided Electives

Plus 3 hours of Advisor Guided Electives Cr. 3.

Plan II Course Requirements

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
  OR PSY7310 - Adv Educational Statistics
- FOED6920 - Educational Research (Inactive)
  OR PSY7900 - Ind Study/Edu Psychology

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework in Counseling and Psychology while still pursuing their undergraduate degree and to transition to the Counseling and Psychology graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University. The minimum admission requirements for participating in the C&P Fast Track Program are:

• Enrolled as a Tennessee Tech undergraduate Psychology major with senior standing.

• Overall GPA of at least 3.0 or better.

• Approval from the student's undergraduate advisor and two other upper division psychology faculty at TTU who have been the student's instructor for at least one course at TTU.

• Course approval from C&P graduate faculty or graduate faculty advisor.

• All requirements for full admission to Graduate School must be met upon graduation. Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

CP-SPY - Counseling and Psychology, School Psychology Concentration, M.A.

Program Overview

Program Long Title

Counseling and Psychology, School Psychology Concentration, M.A.

College/School

Education and Human Sciences

Department(s)

Counseling and Psychology

Catalog Full Description

A primary purpose of the department is to offer strong academic programs in the preparation for a career in counseling and psychology. Graduate programs are offered at the Master of Arts, Specialist in Education, and Ph.D. levels. The MA and Ed.S. in Counseling and Psychology offer a number of concentrations available in each of these programs.

The degree programs in Counseling and Psychology each consist of a counseling concentration, appropriate cognate area, and a research component. Concentrations are available in: • Psychology • Clinical Mental Health Counseling (Master's level only) • School Counseling • School Psychology

The department also offers a Ph.D. in Counseling and Supervision. • Counseling and Supervision, Ph.D. Counseling and Psychology

The MA in Counseling and Psychology with a concentration is School Psychology is a 33-36 hour non-licensure option. Degree requirements include:

Plan I

- **Required Core Courses:** 24 hours
- **Plan I Required Courses:** 12 hours
- **Total Degree Requirement Plan I:** 36 hours

Plan II

- **Required Core Courses:** 24 hours
- **Plan II Required Courses:** 9 hours
- **Total Degree Requirement Plan II:** 33 hours

Note: The School Psychology Concentration may require 15 hours of background courses. See your advisor to discuss the addition of background courses to your program hours.

Admission Requirements

Admission Requirements

The Department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration. The recommended admission requirements are:

1. A bachelor's degree from an accredited institution.

2. Satisfactory undergraduate grade point average, usually a minimum of 3.0 on a 4.0 scale.

3. Enough undergraduate training in psychology or related work experience to do graduate work in the chosen concentration.

4. Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.

5. Successful interview with faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.

6. While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate-level academic work.

Satisfying recommended standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the College of Graduate Studies and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine (9) hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine (9) semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Degree Requirements

Type
Completion Requirement

Required Core Courses (24 hours)

Complete ALL of the following Courses:

- PSY5160 - Abnormal Psychology
- PSY7730 - Individual Testing
- PSY7200 - Adv Educational Psychology
- COUN6300 - Introduction to Counseling: Foundations, Ethics and Legal Issues
- COUN6320 - Group Counseling
- COUN6360 - Counseling Skills
- COUN6362 - Counseling Theories
- COUN6800 - Practicum

Required Courses: Plan I (12 hours)

The following courses are required for a student selecting Plan I of the School Psychology concentration.

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
  OR PSY7310 - Adv Educational Statistics
- FOED6920 - Educational Research (Inactive)
  OR PSY7900 - Ind Study/Edu Psychology
- PSY6990 - Research and Thesis

Required Courses: Plan II (9 hours)

Students enrolling in Plan II of the School Psychology concentration must take the following courses (6 hours) and also select one additional advisor recommended elective (3 hours).

Complete ALL of the following Courses:

- PSY6310 - Educational Statistics
  OR PSY7310 - Adv Educational Statistics
- PSY6930 - Interpret/Apply Psy Rsrch

Advisor Approved Elective (3 hours)

School Psychology Concentration Background Courses

Your advisor will determine what background courses you may need for the degree program. Typically the following background courses are required.

Complete ALL of the following Courses:

- PSY5050 - Learning & Cognition
- PSY5100 - Child Psychology
- PSY5150 - Psy Of Personality
- PSY5200 - Adolescent Psychology
- PSY5250 - Intro To Psy Testing

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable Tennessee Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework in Counseling and Psychology while still pursuing their undergraduate degree and to transition to the Counseling and Psychology graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University. The minimum admission requirements for participating in the C&P Fast Track Program are:

• Enrolled as a Tennessee Tech undergraduate Psychology major with senior standing.

• Overall GPA of at least 3.0 or better.

• Approval from the student's undergraduate advisor and two other upper division psychology faculty at TTU who have been the student's instructor for at least one course at TTU.

• Course approval from C&P graduate faculty or graduate faculty advisor.

• All requirements for full admission to Graduate School must be met upon graduation. Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

CP-SSPY - Counseling and Psychology, School Psychology Concentration, Ed.S.

Program Overview

Program Long Title
Counseling and Psychology, School Psychology Concentration, Ed.S.

College/School
Education and Human Sciences

Department(s)
Counseling and Psychology

Catalog Full Description
The Ed.S. concentration in School Psychology is a 30 hour program and consists of 9 required courses as defined below. However, additional courses may be required for the School Psychologist Endorsement.

- **Required Concentration Courses:** 30 hours

Admission Requirements

Admission Requirements
Students pursuing graduate study in the Department of Counseling and Psychology can select from among several concentrations that are designed to lead to licensure in the State of Tennessee or that lead to Non licensure degrees.

Admission Criteria
The department offers admission to applicants who appear to have the highest potential for graduate study and who have the disposition to be successful in their concentration.

The minimum admission requirements are:

- A Master's degree from an accredited institution.
- Satisfactory graduate grade point average of 3.5 on a 4.0 scale.
- Enough graduate training in psychology to do advanced graduate work in the chosen concentration.
- Three acceptable letters of recommendation for graduate study from faculty members or other persons who have adequate knowledge of the applicant's professional qualities or potential for success as a graduate student.
- Successful interview with the faculty review committee with a focus on dispositional congruence, personal intent, and professional aspirations.
- While not required, an applicant may submit GRE General Test (GRE) scores for consideration to address their aptitude for graduate level academic work.
- Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of holistic factors, including an interview, letters of recommendation, academic history, and related work experience.
- Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of nine hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the nine semester hours of graduate study in the concentration and be approved by the departmental admissions committee.

Evidence of English Language Proficiency
All applicants from countries in which the official language is not English are required to submit evidence of proficiency in English equivalent to level 9 in FLS.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Concentration Requirements (30 hours)

Type
Completion Requirement

Required Concentration Courses (30 hours)

Complete ALL of the following Courses:

- CUED6010 - Curriculum Development & Evaluation
- FOED7020 - Philosophy & Public Policy
- PSY7170 - Consultation/Edu Setting
- PSY7310 - Adv Educational Statistics
- PSY7610 - Intro/Personality Assessment
- PSY7900 - Ind Study/Edu Psychology
- PSY7910 - Assessment and Intervention
- PSY7920 - Assessment and Intervention
- PSY7950 - Internship/School Psychology

PSY 7950 - Internship in School Psychology Cr. 3. *

* Two courses of three semester hours each, taken over two semesters, for a total of 1200 clock hours.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

CSC-MS - Computer Science - M.S.

Program Overview

Program Long Title
Computer Science - M.S.

College/School
Engineering

Department(s)
Computer Science

Catalog Full Description
The Department offers a Master of Science in Computer Science (MSCS) and a specialization in Computer Science within the PhD program in the College of Engineering.

The MSCS is available to students in the form of three options: thesis, project, and coursework-only.

Those who select the thesis option take 6 credit hours of research in addition to 24 hours of approved graduate coursework. Students taking the project option take 6 credit hours of project work in addition to 24 hours of approved graduate coursework, and students in the coursework-only option take 3 credit hours of independent study in addition to a minimum of 27 hours of approved graduate coursework.

The faculty are active in a wide variety of research areas, and interested students should refer to the departmental website for specific details. The mission of the CS department, consistent with the mission of the University and the College of Engineering, is:

To be widely recognized for enabling students to have global impact though innovative, quality programs and research that emphasizes collaborative partnerships and the success of a diverse student, faculty, and alumni community.

Degree Requirements
Thesis Option

- **Advisor Approved Electives*:** 24 hours
- **Research Requirement:** 6 hours
- **Total Degree Requirements:** 30 hours

Project Option

- **Advisor Approved Electives*:** 24 hours
- **Non-Thesis Project Requirement:** 6 hours
- **Total Degree Requirements:** 30 hours

Courses Only Option

- **Advisor Approved Electives*:** 27 hours
- **Courses Only Requirement:** 3 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements
An applicant for admission to the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent.

Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- Undergraduate GPA of at least 3.0 on a 4.0 scale,
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.

International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission.

Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Note: The program is designed for graduates of approved undergraduate programs. Thus, a baccalaureate degree in computer science is required for full standing. Applicants that have an undergraduate degree in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

To receive a Master of Science (MS) degree in Computer Science (CS) the student should complete all the MS requirements specified by the University and the College of Engineering. Additionally, certain specific departmental requirements are listed on the corresponding departmental website. A student has the option of a Thesis or Non-Thesis degree program. All students will be required to complete online modules on the Principles of Computer Science Research no later than the completion of 15 credit hours of graduate coursework.

Departmental Degree Requirements

Type
Completion Requirement

Additional Comments:

Departmental Degree Requirements

To receive a Master of Science (MS) degree in Computer Science (CS) the student should complete all the MS requirements specified by the University and the College of Engineering. Additionally, certain specific departmental requirements are listed on the corresponding departmental website. A student has the option of a Thesis or Non-Thesis degree program. All students will be required to complete online modules on the Principles of Computer Science Research no later than the completion of 15 credit hours of graduate coursework.

Thesis Option

The Thesis option requires 30 semester credit hours of graduate work, including 24 hours of coursework and 6 hours of graduate thesis (CSC6990 Research & Thesis). The thesis requirement includes research, the findings of which must be submitted in writing subject to the policies and satisfaction of the Graduate School and the advisory committee. In addition, each student must pass a defense of his/her research work before the advisory committee. The advisory committee shall consist of at least three members, two of which must be from the CS department, including being chaired or co-chaired by a CS faculty member.

Degree Requirements

- **Advisor Approved Electives*:** 24 hours
- **Research Requirement:** 6 hours
- **Total Degree Requirements:** 30 hours

* Advisor Approved Electives may be selected from CSC, MATH, DS, ECE , ENGR, or EMGT 5000, 6000, 7000 level courses with a maximum of 9 hours at the 5000 level.

Project Option

The Project Option requires 30 semester credit hours of graduate work, including 24 hours of coursework and 6 hours graduate project (CSC6980 Masters Project) For the Project Option, each student must pass a defense of her/his project work before the advisory committee. The advisory committee shall consist of at least three members, two of which must be from the CS department, including being chaired or co-chaired by a CS faculty member.

Degree Requirement

- **Advisor Approved Electives*:** 24 hours
- **Non-Thesis Project Requirement :** 6 hours
- **Total Degree Requirements:** 30 hours

* Advisor Approved Electives may be selected from CSC, MATH, DS, ECE , ENGR, or EMGT 5000, 6000, 7000 level courses with a maximum of 9 hours at the 5000 level.

Courses Only Option

The Courses Only Option requires 30 semester credit hours of graduate work, including 27 hours of coursework and 3 hours of directed independent study (CSC6803 Directed Independent Study or CSC7980 Directed Study). For the Courses Only Option, each student must pass a comprehensive exam administered by the advisory committee. The advisory committee shall consist of at least three members, two of which must be from the CS department, including being chaired or co-chaired by a CS faculty member.

Degree Requirement

- **Advisor Approved Electives*:** 27 hours
- **Courses Only Requirement:** 3 hours
- **Total Degree Requirements:** 30 hours

* Advisor Approved Electives may be selected from CSC, MATH, DS, ECE , ENGR, or EMGT 5000, 6000, 7000 level courses with a maximum of 9 hours at the 5000 level.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework while still pursuing their undergraduate degree and to transition to the Computer Science graduate program smoothly, with accelerated completion.

Up to six (6) hours of graduate coursework, exclusive of directed study, can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum.

The minimum requirements for acceptance to the Fast Track program are:

• Enrolled as TN Tech Undergraduate with junior or senior standing.

• Completed CSC 2400.

• Overall GPA of at least 3.25 and a GPA for CSC courses of at least 3.5. Fulfilling the above minimum requirements does not guarantee acceptance into the Computer Science Fast Track program. Students who meet the above minimum requirements must consult with the Computer Science department for eligibility and acceptance.

Once accepted in the Fast Track program, students should be aware of the following:

• Program participants should consult with their future M.S. advisor regarding appropriate graduate courses to take during their junior/senior year.

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.S. program of study.

• All requirements for full admission to Graduate Studies must be met upon graduation.

• Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

CSC-PHD - Computer Science, Ph.D.

Program Overview

Program Long Title
Computer Science, Ph.D.

College/School
Engineering

Department(s)
Computer Science

Catalog Full Description
The purpose of the Computer Science, PhD Program is to provide students with an opportunity for advanced studies and research in the field of Computer Science. As a research-based degree, the focus is on developing the independent learning skills of students in preparation for advanced- level, research-focused employment in industry or academia.

The faculty are active in a wide variety of research areas, and interested students should refer to the departmental website for specific details. The mission of the Department of Computer Science is consistent with the mission of the University and the College of Engineering:

To be widely recognized for enabling students to have global impact though innovative, quality programs and research that emphasizes collaborative partnerships and the success of a diverse student, faculty, and alumni community.

Admission Requirements

Admission Requirements
The basic admission standards for the Ph.D. in Computer Science are the same as for MS programs, except that, additionally, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale. In addition, a GRE score is not required for applicants to the Ph.D. in Computer Science.

Though the general requirement for admission to the Ph.D. program is a Master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate computer science-related undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000-level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/ FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a "B" grade or better. Transfer credit GPA will not apply towards the program's GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student's graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Admitted with a Master's Degree

Type
Completion Requirement

Program of Study is defined by the committee

48 hours required, comprised of:

- 18 credit hours (minimum) of coursework beyond the master's degree
- 6 credit hours of concentration coursework
- 24 hours research and dissertation

Admitted with a Bachelor's Degree

Type
Completion Requirement

Program of Study defined by the committee

72 credit hours required and comprised of:

- 42 hours of coursework (maximum 9 hours at the 5000 level)
- 6 hours of coursework or research experience
- 24 hours of research and dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

CSED-CER - Computer Science Education Certificate, Curriculum and Instruction

Program Overview

Program Long Title
Computer Science Education Certificate, Curriculum and Instruction

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Certificate in Computer Science Education is the first computer science education licensure option in the State of Tennessee. This program allows the preservice and in-service teacher to receive license endorsements, while promoting and integrating computer science education in the K-12 environment. The curriculum is a combination of courses designed around state and national standards for computer science education. The certificate is 12 credit hours and includes courses in Curriculum and Instruction.

The certificate is open to all graduate students admitted to Tennessee Tech University. Students outside of the Curriculum and Instruction major will coordinate academic advising with the student's major advisor and an advisor in Curriculum and Instruction.

Certificate requires 12 credit hours.

Admission Requirements

Admission Requirements
Applicants for the Computer Science Education Certificate follow the admissions requirements defined for the Master of Arts in Curriculum Instruction as listed below:

Requirements for Admission in Full Standing:
- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:
- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75. Teacher licensure standards may require a separate minimum GPA for licensure.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:
International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Certificate in Computer Science Education is the first computer science education licensure option in the State of Tennessee. This program allows the preservice and in-service teacher to receive license endorsements, while promoting and integrating computer science education in the K-12 environment. The curriculum is a combination of courses designed around state and national standards for computer science education. The certificate is 12 credit hours and includes courses in Curriculum and Instruction.

The certificate is open to all graduate students admitted to Tennessee Tech University. Students outside of the Curriculum and Instruction major will coordinate academic advising with the student's major advisor and an advisor in Curriculum and Instruction.

Certificate Requirements

Type
Completion Requirement

Required Coursework (12 Hours)

Complete ALL of the following Courses:
- CSED6000 - Digital Literacy & Computing
- CSED6010 - Computational Thinking Concepts and Curriculum Design
- CSED6020 - Programming Fundamentals for Educators
- CSED6030 - Computer Science Instructional Methods

Additional Comments:

Total hours required: 12

ECE-MS - Electrical and Computer Engineering, M.S.

Program Overview

Program Long Title
Electrical and Computer Engineering, M.S.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Catalog Full Description
The Department of Electrical and Computer Engineering offers advanced studies leading to the Master of Science degree in Electrical and Computer Engineering and the Doctor of Philosophy degree in Engineering with specialization in Electrical and Computer Engineering.

The goals of the MS program are to prepare graduates with advanced engineering and research skills and state-of-the-art knowledge in selected areas for positions in industry and for advanced studies towards the Ph.D. The MS-ECE degree program can be pursued with either a thesis option or a non-thesis option.

The departmental faculty have expertise in the following areas of electrical engineering: circuits and signal processing; control, robotics and instrumentation, digital systems, computers, and VLSI circuit design; nuclear engineering; physical phenomenon and lasers; electric power; and telecommunications, wireless communications and networking. Graduate students may carry out their research for their thesis/dissertation in any one (1) of the above areas under the supervision of a faculty member having expertise in that area. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis/dissertation research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Many departmental faculty members actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Degree Requirements (Thesis)
- **Core Required Course,** ECE6910 Intro to Graduate Research**:** 1 hour
- **ECE Breadth Courses*:** 9 hours
- **Advisor Approved Electives*:** 12 hours
- **Research and Thesis,** ECE6990 Research & Thesis**:** 8 hours
- **Total Degree Requirements:** 30 hours

Degree Requirements (Non-Thesis)
- **ECE Breadth Courses*:** 9 hours
- **Advisor Approved Electives*:** 18 hours
- **Non-Thesis Design Project,** ECE6970 Non-Thesis Design Project**:** 3 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements
An applicant for admission to the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent.

Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department: *undergraduate GPA of at least 3.0 on a 4.0 scale,

*GRE® General Test (GRE) scores with Quantitative greater than or equal to 157; Verbal greater than or equal to 147; Analytical Writing greater than or equal to 3.5. Students with BS degrees in related fields from TTU are not required to take the GRE.

*Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.

*Availability of appropriate faculty to serve as research advisor(s).

*Participation in undergraduate research.

*Post-BS degree professional experience relevant to planned degree of study.

*Publications in peer reviewed journals and/or award-winning presentations in technical conferences.

International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission.

Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Note: The program is designed for graduates of approved undergraduate programs. Thus, a baccalaureate degree in electrical engineering is required for full standing. Applicants that have an undergraduate degree in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Departmental Degree Requirements

To receive an MS degree in ECE the student should complete all the MS requirements specified by the University and the College of Engineering. Additionally, certain departmental requirements listed below shall also be satisfied:

Thesis Option

An MS-ECE program of study with thesis option requires a minimum of 22 credit hours of course work and a minimum of eight (8) credit hours of thesis completed under the supervision of the graduate thesis advisor. The coursework shall include 1-credit-hour of ECE6910 Intro to Graduate Research - Introduction to Graduate Research, during the first semester of study; at least 15 hours of graduate ECE courses that must include 9 credit hours of ECE graduate level breadth courses from a list maintained by the ECE Department; no more than three (3) hours of directed/independent study courses to satisfy the required minimum of 21 hours of coursework. The thesis requirement includes research, the findings of which must be submitted in writing subject to the policies and satisfaction of the College of Graduate Studies and the advisory committee. In addition, each student must pass a comprehensive exam which includes a defense of his/her research work before the advisory committee. The advisory committee shall be chaired or co-chaired by and ECE faculty member and include and additional member from the ECE Department.

Degree Requirements

- **Core Required Course,** ECE6910 Intro to Graduate Research**:** 1 hour
- **ECE Breadth Courses*:** 9 hours

  Advisor Approved Electives*: 12 hours
- **Research and Thesis,** ECE6990 Research & Thesis**:** 8 hours
- **Total Degree Requirements:** 30 hours

*Selection of appropriate courses (ECE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives

Advisor Approved Electives (within the department)

Selection of appropriate courses (ECE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives (outside of the department). It may include a maximum of 3 credit hours of directed study.

The student's advisory committee and/or the graduate coordinator may advise a student to take courses outside of the ECE discipline. Common prefixes appropriate for the ECE program of study include: ME, MATH, CSC, CHEM, CHE, PHYS, and CEE.

Non-thesis Option

An MS-ECE program of study with non-thesis option requires a minimum of 30 credit hours of course work and shall include: 9 credit hours of graduate level breadth courses from a list maintained by the ECE department; a minimum of eighteen (18) credit hours of graduate level ECE elective courses; a three (3) credit hours ECE6970 Non-Thesis Design Project - Non-Thesis Design Project course that will enhance independent learning skills and a maximum of nine (9) hours of graduate level elective courses from outside the department.

- **ECE Breadth Courses*:** 9 hours
- **Advisor Approved Electives*:** 18 hours
- **Non-Thesis Design Project,** ECE6970 Non-Thesis Design Project**:** 3 hours
- **Total Degree Requirements:** 30 hours

*Selection of appropriate courses (ECE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives

Advisor Approved Electives (within the department)

Selection of appropriate courses (ECE 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Advisor Approved Electives (outside of the department)

The student's advisory committee and/or the graduate coordinator may advise a student to take courses outside of the ECE discipline. Common prefixes appropriate for the ECE program of study include: ME, MATH, CSC, CHEM, CHE, PHYS, and CEE.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable Tennessee Tech University ECE undergraduates to accumulate up to six (6) credit hours of graduate coursework while still pursuing their undergraduate degree and to transition to the graduate program smoothly, with accelerated completion.

Up to six (6) hours of graduate coursework, exclusive of directed study, taken during the student's senior year can be used to satisfy both undergraduate and graduate degree requirements. These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum for senior ECE electives.

In order to remain in the Fast Track program, the student must demonstrate ongoing scholarship by continuing to meet the GPA admission requirements during the semester that the student enrolls in the first of their graduate courses. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.S. program of study and to continue in the Fast Track program. Additionally, Fast Track students will be integrated into ECE research projects and/or capstone design projects while enrolled as seniors with the expectation that this research will directly coordinate with their M.S. thesis research. Either a thesis or non-thesis M.S. option may be pursued. ECE Fast Track students that graduate with their B.S. in the spring semester can be expected to complete their M.S. requirements in either the spring or summer term of the following calendar year.

Fast Track students are only eligible for graduate teaching or research assistantship during the fifth (graduate) year of their studies. Students who do not succeed in their first graduate course during their senior year (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

EDEL-MA - Elementary Education, M.A.

Program Overview

Program Long Title
Elementary Education, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Elementary Education

Degree Programs
https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 18 hours
- **Research Coursework**: 6 hours
- **Advisor Guided Electives:** 9 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 18 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 9 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (18 hours)

Complete ALL of the following Courses:

- CUED6150 - Middle School Curriculum
- FOED6820 - Applied Educational Assessment
- ELED6400 - Adv Studies/Elem Sci Edu
- ELED6500 - Diag & Rem Tech Elem Math
- ELED6600 - Organizing Theme-Soc Stu
- ELED7400 - The Literacy Lang Arts Program

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (9 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology

- MUS - Music
- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 33 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TTU undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TTU undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

EDIL-MA - Instructional Leadership, M.A.

Program Overview

Program Long Title
Instructional Leadership, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Instructional Leadership (INSL) online program prepares graduate candidates seeking licensure for positions as school administrators in the state of Tennessee.

Degree Requirements
The Master of Arts in Instructional Leadership is a 33 hour degree program. This program prepares educational professionals for administrative career advancement.

• Core Coursework: 27 hours

• Research Coursework: 6 hours

• Total Degree Requirements: 33 hours

Graduation Requirements
• The candidate must pass the praxis exam, School Leaders Licensure Assessment (SLLA)

• Each candidate will be instructed to register for the School Leaders Licensure Assessment (SLLA) at the appropriate time during their program of study by an INSL advisor.

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75. Teacher licensure standards may require a separate minimum GPA for licensure.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Master of Arts in Instructional Leadership Admission Requirements

In addition to the Department of Curriculum and Instruction Master's admission requirements, additional requirements for applicants of the M.A. in Instructional Leadership (INSL) program are:

1. A valid TN teaching license
2. A minimum of two (2) years teaching experience required.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Master of Arts in Instructional Leadership is a 33 hour degree program. This program prepares educational professionals for administrative career advancement.

- Core Coursework: 27 hours
- Research Coursework: 6 hours
- Total Degree Requirements: 33 hours

MA in Instructional Leadership (33 hours)

Type
Completion Requirement

Core Coursework (27 hours)

Complete ALL of the following Courses:

- INSL6510 - School Leadership & Law
- INSL6560 - Technology for Administrators
- INSL6530 - Data Drvn Curic:Dev,Asmt,Eval
- INSL7010 - Instructional Leadership
- INSL7400 - School Ldrship & Supervision

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Total Degree Requirements: 33 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

EDSE-MA - Secondary Education, M.A.

Program Overview

Program Long Title
Secondary Education, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description

Master of Arts in Secondary Education

Degree Programs
https://www.tntech.edu/education/ci/graduate.php

Degree Requirements

- **Core Concentration Coursework:** 12 hours
- **Research Coursework:** 6 hours
- **Advisor Guided Electives:** 15 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Core Concentration Coursework: 12 hours
- Research Coursework: 6 hours
- Advisor Guided Electives: 15 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Concentration Coursework (12 hours)

Complete ALL of the following Courses:

- CUED6150 - Middle School Curriculum
- FOED6020 - Perspectives-American Edu
  OR FOED7020 - Philosophy & Public Policy
- FOED6320 - Educational App of Technology
- FOED6820 - Applied Educational Assessment

Research Coursework (6 hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research
  OR CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum
  OR CUED6315 - Qualitative Problems in Curriculum

Advisor Guided Electives (15 hours)

Students, at the advice of their advisor and/or committee, may take 6000, or 7000 level courses from the following subject list.

- AGED - Agricultural Education
- CTE - Career Technical Education
- CFS - Child and Family Studies
- CUED - Curriculum Education
- ECED - Early Childhood Education
- ECSP - Early Childhood Special Education
- ELED - Elementary Education
- ESLP - English as a Second Language Pedagogy
- FOED - Foundations of Education
- INSL - Instructional Leadership
- LSCI - Library Science
- READ - Reading
- SEED - Secondary Education
- SPED - Special Education
- ABAP - Applied Behavioral Analysis
- EDU - Education
- EDUB - Behavior
- EDUC - Young Children
- EDUL - Literacy
- EDUP - Program Planning & Evaluation
- EDUS - STEM Education
- CSED - Computer Science Education
- ESOL - English as a Second or Other Language
- SVCL - Service Learning
- EXPW - Exercise, Physical Education and Wellness
- HEC - Human Ecology
- MUS - Music

- MUED - Music Education
- EDUH - Health Behavior/Wellness Education

Advisor Guided Electives
TOTAL DEGREE REQUIREMENTS: 33 HOURS

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TTU undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TTU undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

EDU-ABA - Exceptional Learning, Applied Behavior Analysis Concentration, Ph.D.

Program Overview

Program Long Title

Exceptional Learning, Applied Behavior Analysis Concentration, Ph.D.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

The Exceptional Learning Ph.D. (ELPhD) program focuses on the characteristics, strengths, and educational needs of individuals and groups whose learning potential and opportunities for success are frequently unrealized. Exceptional populations include people for whom social, economic, and physical characteristics may serve as a barrier to development and learning.

The ELPhD program offers robust academic preparation of professionals who serve their communities, public school systems, institutions of higher education, and nontraditional educational environments. Our graduates are leaders who work across local, regional, national, and international platforms to effect positive change in diverse populations of exceptional learners and educational contexts, addressing barriers to learning, primarily through research and service activities.

The ELPhD curriculum is organized around three areas of knowledge development-core, concentration, and research. Core knowledge includes an orientation to the program, theory, foundations for understanding exceptional populations, program planning and evaluation, and technology. Concentration knowledge helps students to deepen and hone their specific interests. The innovative research sequence grounds students in quantitative and qualitative research methodologies.

Applied Behavior Analysis prepares professionals who can develop and deliver behavioral interventions and supports for individuals within educational and habilitative settings.

There are two ABA tracks:

School-Aged Children and Adult Populations prepares professionals who will implement and provide empirical support for behavioral interventions for a range of populations and pursue board certification as a behavior analyst. The ABAS course sequence is approved by the national Behavior Analyst Certification Board (BACB).(Track leader – Dr. Krystal Kennedy)

Young Children and Families prepares professionals to provide support and interventions to young, at-risk children and families with emphasis on building relationships and advocating for children and families. (Track Leader – Dr. Jane Baker)

Curriculum

The Exceptional Learning Ph.D. requires 78-79 credit hours and is organized into three core areas: Core Knowledge, Concentration Knowledge, and Research Knowledge. Credit hours are classified as follows:

- Core Coursework 13 credit hours
- Core Concentration Coursework 23-24 credit hours
- Advisor Guided Electives 6 credit hours
- Research Coursework 21 credit hours
- Dissertation 15 credit hours
- Total Degree Requirements 78-79 credit hours

En-route M.A. or Ed.S Degree in Curriculum and Instruction

A student pursuing an Exceptional Learning Ph.D. may elect to earn an en-route degree as they progress through the ELPhD program. Those students entering the program with no prior graduate degree may earn an M.A. in Curriculum & Instruction (C&I) with a Curriculum concentration, as the student successfully

advances toward completion of the Ph.D. Those who enter the program with a graduate degree may elect to earn either the M.A. or an Ed.S. in Curriculum & Instruction with a Curriculum concentration.

If a student elects to forego the en-route degree, the full 79 credit hours of the program must be completed. The Ph.D. is not reduced to 46–49 hours, even if a student enters with one or more graduate degrees.

En-route M.A. in Curriculum & Instruction with Curriculum concentration

The en-route M.A. degree may be awarded when the student successfully completes 33 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The M.A. will not be awarded without completion of these 9 research credit hours.

Enroute-MA in Curriculum and Instruction

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 . 9 hours

Advisor Guided Electives 24 hours

TOTAL Hours for Enroute MA 33 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the M.A. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route M.A. portion of the program, unless special exception has been secured. Courses applied to the en-route M.A. must be completed within six years of enrollment.

The en-route M.A. degree may be awarded at any point during the program, given that the student:

• meets both the C&I M.A. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies.

Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route M.A. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 45–46 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

En-route Ed.S. in Curriculum & Instruction (with Curriculum concentration)

The en-route Ed.S. degree may be awarded when the student successfully completes 30 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The Ed.S. will not be awarded without completion of these 9 research credit hours.

Enroute-Ed.S. in Curriculum and Instruction Course Requirements Credit Hours:

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 9 hours

Advisor Guided Electives 21 hours

TOTAL Hours for Enroute 30 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the en-route Ed.S. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route Ed.S. portion of the program, unless special exception has been secured. Courses applied to the en-route Ed.S. must be completed within six years of enrollment.

The en-route Ed.S. degree may be awarded at any point during the program, given that the student:

• meets both the C&I Ed.S. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies. Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route Ed.S. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 48–49 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

Note: Only students admitted to the ELPhD program are permitted to enroll in these courses.

Admission Requirements

Admission Requirements

A multifaceted approach is taken in the application and admissions decisions process. The applicant will be evaluated on the criteria listed below in order to determine the applicant's overall potential for success in the ELPhD program. Please note, however, that fulfillment of the minimum requirements does not guarantee admission.

1. **QPA**–Consideration for admission to the program is based on the applicant's grade point average (GPA) in the last graduate degree or the last 60 hours of undergraduate work if no graduate degree has been completed. If a student has successfully completed some graduate hours but not attained a graduate degree, the GPA for these courses may also be considered. An average of 3.0 (on a 4.0 scale) or above from a recognized baccalaureate, graduate, or professional degree from an accredited college or university, or an international equivalent based on a four-year curriculum is required for admission.

2. **GRE**– valid GRE scores (score date within 5 years of application) must be submitted as part of the ELPhD application.

3. **Scholarly Writing**–Students must demonstrate scholarly writing skill and mastery by submitting a reference-based paper, thesis, or other written document. The writing sample should use multiple, credible sources to support a particular point of view, argument, or claim and show the applicant's writing quality, skillful analysis/argument, and proficiency with synthesizing information. The applicant must be the sole author. The scholarly writing sample does not have a specific topic requirement.

4. **Statement of Intent**–One (1) to two (2) pages that address the following: intended enrollment (semester and year), intended concentration, autobiographical statement, educational and professional goals, and area of interest for future research. Applicants to the ABA concentration must indicate the track in which they wish to enroll: School-Aged & Adult Populations (ABAS) or Young Children & Families (YCF).

5. **Three Letters of Recommendation**–Recommendation letters should be from individuals, preferably professors, who are able to comment on the student's qualifications and scholarly aptitude for doctoral study. The letter should also address characteristics that will contribute to the student's success as a doctoral student should you be accepted in the ELPhD program. Consideration will be made based upon the content of these letters. Please make certain the recommenders know they must submit a letter as well as evaluate the applicant on a series of qualities (done when submitting the letter). Applications without three letters may not receive full consideration.

6. **Professional Curriculum Vitae (CV)/Resume**

7. **Interviews** - Applicants who pass the initial evaluation will be required to have an interview with the ELPhD program faculty and director of graduate programs.

8. **International Students** must also meet the English Language Requirement by providing TOEFL test scores: a minimum of 4.0 required. If you have taken another TOEFL version and the results are still valid (no more than 5 years old).

Applicants who have citizenship in a country where English is a primary language or have been awarded a degree from a university in one of the following countries are exempt from the English Language requirement: Australia, Belize, the British Caribbean and British West Indies, Canada (except Quebec), England, Guyana, Ireland, Liberia, New Zealand, Scotland, the United States, and Wales.

If a candidate does not have access to a TOEFL testing site, it may be possible to accept another language proficiency test score. Candidates should inquire before submitting a test score other than the TOEFL.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Exceptional Learning Ph.D. requires 78-79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework: 13 hours
- Research Coursework: 21 hours
- Dissertation: 15 hours
- Core Concentration Coursework: 23-24 hours
- Advisor Guided Electives: 6 hours
- Total Degree Requirements: 78-79 hours

School-aged Children and Adult Populations (ABAS) 79 credit hours

Type
Completion Requirement

Core Coursework 13 credit hours

Complete ALL of the following Courses:

- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation
- CUED7430 - Special Application/Technology to Education
  OR EDU7440 - Tech App:Inst Dissem-Info (Inactive)

Concentration Coursework 24 credit hours

Complete ALL of the following Courses:

- EDUB7001 - Prin of Behavior Analysis
- EDUB7002 - Behavior Assessment
- EDUB7003 - Behavior Intervention
- EDUB7004 - Theory & Phil in Bhav Analysis
- EDUB7005 - Organizational Behavior Mngmt
- EDUB7006 - Ethics in ABA DUPLICATE (Inactive)
- EDUB7007 - Resch Methods in Bhav Analysis
- EDUB7008 - Topics/Applied Behavior Analys

Guided Electives 6 credit hours

Complete at least 2 of the following courses:

- CUED6010 - Curriculum Development & Evaluation
- CUED7010 - Learning Theories
- CUED7030 - Rural Schools & Communities
- EDU7060 - Issues in Education
- EDU7950 - Doctoral Sem:Sp Top/Education
- EDUL7200 - Supporting Learners Impacted by Poverty
- EDUL7300 - Multiliteracies
- EDUL7400 - Language Theory and Applications
- EDUL7500 - Linguistic Perceptions
- EDUP7410 - Adv Planning & Eval Meth I
- ENGL4511 - Intro/Descriptive Linguistics
- ENGL4561 - American English
- ENGL6010 - Teaching Composition
- FOED6020 - Perspectives-American Edu
- FOED7020 - Philosophy & Public Policy
- SPED6120 - Erly Chldhd SPED Assessment
- SPED7110 - Family Collaboration in SPED

Research Coursework 21 credit hours

Complete ALL of the following Courses:

- EDU7420 - Quant Inquiry in Edu I
  AND EDU7430 - Quant Inquiry in Edu II
  AND EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
  AND EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7920 - Research Seminar/Education
- EDU7950 - Doctoral Sem:Sp Top/Education
  OR EDU7350 - Advanced Regression Analysis
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography
  OR EDUP7410 - Adv Planning & Eval Meth I

Notes:

EDU 7010, a core required course, is the first course in the Qualitative block and must be completed before EDUB7330.

* EDU7950 Doctoral Sem:Sp Top/Education only if a research-based topic

Dissertation 15 credit hours

Complete ALL of the following Courses:

- EDU7990 - Research and Dissertation

The 15 hours are generally taken in 9 & 6 hour blocks.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Young Children and Families (YCF) 78 credit hours

Type
Completion Requirement

Core Coursework 13 credit hours

Complete ALL of the following Courses:

- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation
- CUED7430 - Special Application/Technology to Education
  OR EDU7440 - Tech App:Inst Dissem-Info (Inactive)

Concentration Coursework 23 credit hours

Complete ALL of the following Courses:

- ABAP7120 - Behavior Support/Families
- ABAP7920 - Topics, Issues, Research/Early Childhood SPED
- ECED7220 - Early Chld Instr/Materials
- EDUC7400 - Prog & Serv Delivery Models
- EDUC7450 - Doctoral Sem:Yng Child & Fam
- HEC6610 - Crisis Mgmt/Interv-Families
- SPED6120 - Erly Chldhd SPED Assessment
- SPED7110 - Family Collaboration in SPED

Guided Electives 6 credit hours

Complete at least 2 of the following courses:

- CUED6010 - Curriculum Development & Evaluation
- CUED7010 - Learning Theories
- CUED7030 - Rural Schools & Communities
- CUED7803 - Lab/Field Experience in Education/ Autoethnography
- EDU7060 - Issues in Education
- EDU7950 - Doctoral Sem:Sp Top/Education
- EDUL7200 - Supporting Learners Impacted by Poverty
- EDUL7300 - Multiliteracies
- EDUL7400 - Language Theory and Applications
- EDUL7500 - Linguistic Perceptions
- EDUP7410 - Adv Planning & Eval Meth I
- ENGL4511 - Intro/Descriptive Linguistics
- ENGL4561 - American English
- ENGL6010 - Teaching Composition
- FOED6020 - Perspectives-American Edu
- FOED7020 - Philosophy & Public Policy
- SPED6120 - Erly Chldhd SPED Assessment
- SPED7110 - Family Collaboration in SPED

Research Coursework 21 credit hours

Complete ALL of the following Courses:

- EDU7420 - Quant Inquiry in Edu I
  AND EDU7430 - Quant Inquiry in Edu II
  AND EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
  AND EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7920 - Research Seminar/Education
- EDU7320 - Rsch Meth/Behavior Analysis
  OR EDU7350 - Advanced Regression Analysis
  OR EDU7950 - Doctoral Sem:Sp Top/Education
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography
  OR EDUP7410 - Adv Planning & Eval Meth I

Notes:

EDU 7010, a core required course, is the first course in the Qualitative block and must be completed before EDUB7330.

* EDU7950 Doctoral Sem:Sp Top/Education only if a research-based topic

Dissertation 15 credit hours

Complete ALL of the following Courses:

- EDU7990 - Research and Dissertation

The 15 hours are generally taken in 9 & 6 hour blocks.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Academic Requirements and Expectations

The student must maintain a cumulative point average of 3.25 and, in addition to adhering to the general regulations of the College of Graduate Studies, adhere to the specific regulations for the Ph.D. in Exceptional Learning program. These regulations, standards, and expectations include:

1. A minimum of 78–79 semester hours of successfully completed course work: 13 hours core courses, 21 hours research courses, 23–24 hours concentration courses, 6 hours elective courses, and a minimum of 15 dissertation hours. All hours should be taken at the 6000– and 7000–levels (transfer credit may include other level courses with approval). Note: if an equivalent specialty course is not available at the 6000– or 7000– level, a 5000–level course that is germane to the student's research/areas of research interest may be used to meet the minimum requirements of course work only by permission of the instructor of the course in question, student's advisor or graduate advisory committee, and the Director of Graduate Programs. Written approval must be secured before enrolling; this may be through inclusion on the approved Program of Study or separate documentation, such as a Substitution form.

a. A minimum of 51 semester hours of course work beyond the baccalaureate must be completed after admittance into the doctoral program, including a minimum of 12 semester hours at the 7000- level (excluding dissertation credit).
b. Upon approval from the student's advisory committee and the Director of Graduate Programs, up to nine (9) graduate credit hours with a grade of B or better can be counted toward the first 33 hours of the ELPhD Program of Study; these may be credits that are independent of or included in a previously earned degree. Requests to transfer more than a total of 18 credit hours must be approved by the Director of Graduate Programs prior to submitting the Program of Study or transfer request. No more than 27 semester hours of credit at the Master's and Educational Specialist levels, excluding theses and problems courses, may be accepted for transfer credit toward the doctorate. All transfer credit must align with Tennessee Tech and SACSCOC guidelines.

2. All requirements, including the dissertation, must be completed within a period of no more than eight (8) consecutive years.

3. As and Bs are required in coursework. A grade of C is considered a failing grade in doctoral programs. The student is allowed to maintain a grade of C in only one (1) course completed toward the Ph.D. degree. A student receiving two

(2) Cs will be dismissed from the program. If a second C is received, it may not be substituted or moved out of the student's program of study in order to avoid dismissal.

4. Ds and Fs are not acceptable in the Ph.D. in Exceptional Learning program. If a student receives a grade of D or F in a course, she/he will be dismissed from the program.

5. If an Incomplete is granted, the student has one (1) academic year to complete the requirements. If the requirements have not been met in the allotted time period, the grade is converted to an IF and the student will be dismissed from the program.

6. A maximum of twelve (12) credit hours may be taken in one (1) semester. Written approval from the student's advisor/chair, department chair, and director of graduate programs is required to register and take more than 12 credit hours in one semester.

7. Course repetition is not allowed in the ELPhD program.

8. Course substitutions are allowed upon written approval from the advisor/ graduate advisory committee, department chair, and director of graduate programs.

9. Students should complete their Comprehensive Examinations either a) following completion of all course work, excluding EDU 7920 and EDU 7990, or b) during the last semester during which such course work is to be completed. Comprehensive Examinations should occur no later than the end of the semester in which the student completes EDU 7920.

10. Approval of the dissertation topic, a successful dissertation proposal presentation to the entire graduate advisory committee, and IRB approval (where appropriate) must precede any significant work on the dissertation. IRB approval must be obtained for any human subjects research project initiated by a student (or faculty member); this includes studies using secondary data.

11. Satisfactory completion of the dissertation requires an oral defense.

12. Dissertation hours (15 hours minimum) may not be completed in fewer than 2 semesters.

EDU-HBWE - Exceptional Learning, Health Behavior and Wellness Education Concentration, Ph.D.

Program Overview

Program Long Title

Exceptional Learning, Health Behavior and Wellness Education Concentration, Ph.D.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

The Exceptional Learning Ph.D. (ELPhD) program focuses on the characteristics, strengths, and educational needs of individuals and groups whose learning potential and opportunities for success are frequently unrealized. Exceptional populations include people for whom social, economic, and physical characteristics may serve as a barrier to development and learning.

The ELPhD program offers robust academic preparation of professionals who serve their communities, public school systems, institutions of higher education, and nontraditional educational environments. Our graduates are leaders who work across local, regional, national, and international platforms to effect positive change in diverse populations of exceptional learners and educational contexts, addressing barriers to learning, primarily through research and service activities.

The ELPhD curriculum is organized around three areas of knowledge development-core, concentration, and research. Core knowledge includes an orientation to the program, theory, foundations for understanding exceptional populations, program planning and evaluation, and technology. Concentration knowledge helps students to deepen and hone their specific interests. The innovative research sequence grounds students in quantitative and qualitative research methodologies.

Health Behavior and Wellness Education (HBWE) offers cutting-edge, hands-on experiential courses along with related pedagogical methods and theory. HBWE research courses supply additional opportunities to research and address discipline-specific concerns. This comprehensive and novel design supplies students with the knowledge, skills, and abilities necessary to succeed professionally and lead change in health sciences and wellness disciplines. (Concentration Leader – Dr. Christy Killman)

En-route M.A. or Ed.S Degree in Curriculum and Instruction (C&I)

A student pursuing an Exceptional Learning Ph.D. may elect to earn an en-route degree as they progress through the ELPhD program. Those students entering the program with no prior graduate degree may earn an M.A. in Curriculum & Instruction (C&I) with a Curriculum concentration, as the student successfully advances toward completion of the Ph.D. Those who enter the program with a graduate degree may elect to earn either the M.A. or an Ed.S. in Curriculum & Instruction with a Curriculum concentration.

If a student elects to forego the en-route degree, the full 79 credit hours of the program must be completed. The Ph.D. is not reduced to 46–49 hours, even if a student enters with one or more graduate degrees.

En-route M.A. in Curriculum & Instruction (with Curriculum concentration)

The en-route M.A. degree may be awarded when the student successfully completes 33 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The M.A. will not be awarded without completion of these 9 research credit hours.

Enroute-MA in Curriculum and Instruction

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 . 9 hours

Advisor Guided Electives 24 hours

TOTAL Hours for Enroute MA 33 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the M.A. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route M.A. portion of the program, unless special exception has been secured. Courses applied to the en-route M.A. must be completed within six years of enrollment.

The en-route M.A. degree may be awarded at any point during the program, given that the student:

• meets both the C&I M.A. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies.

Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route M.A. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 45–46 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

En-route Ed.S. in Curriculum & Instruction (with Curriculum concentration)

The en-route Ed.S. degree may be awarded when the student successfully completes 30 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The Ed.S. will not be awarded without completion of these 9 research credit hours.

Enroute-Ed.S. in Curriculum and Instruction Course Requirements Credit Hours:

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 9 hours

Advisor Guided Electives 21 hours

TOTAL Hours for Enroute 30 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the en-route Ed.S. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route Ed.S. portion of the program, unless special exception has been secured. Courses applied to the en-route Ed.S. must be completed within six years of enrollment.

The en-route Ed.S. degree may be awarded at any point during the program, given that the student:

• meets both the C&I Ed.S. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies. Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route Ed.S. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 48–49 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

Note: Only students admitted to the ELPhD program are permitted to enroll in these courses.

Curriculum

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge.

Credit hours are classified as follows:

- Core Coursework 10
- Core Concentration Coursework 24
- Advisor Guided Electives 9
- Research Coursework 21
- Dissertation 15+
- Total Degree Requirements 79

Admission Requirements

Admission Requirements

A multifaceted approach is taken in the application and admissions decisions process. The applicant will be evaluated on the criteria listed below in order to determine the applicant's overall potential for success in the ELPhD program. Please note, however, that fulfillment of the minimum requirements does not guarantee admission.

1. **QPA**–Consideration for admission to the program is based on the applicant's grade point average (GPA) in the last graduate degree or the last 60 hours of undergraduate work if no graduate degree has been completed. If a student has successfully completed some graduate hours but not attained a graduate degree, the GPA for these courses may also be considered. An average of 3.0 (on a 4.0 scale) or above from a recognized baccalaureate, graduate, or professional degree from an accredited college or university, or an international equivalent based on a four-year curriculum is required for admission.

2. **GRE**– valid GRE scores (score date within 5 years of application) must be submitted as part of the ELPhD application.

3. **Scholarly Writing**–Students must demonstrate scholarly writing skill and mastery by submitting a reference-based paper, thesis, or other written document. The writing sample should use multiple, credible sources to support a particular point of view, argument, or claim and show the applicant's writing quality, skillful analysis/argument, and proficiency with synthesizing information. The applicant must be the sole author. The scholarly writing sample does not have a specific topic requirement.

4. **Statement of Intent**–One (1) to two (2) pages that address the following: intended enrollment (semester and year), intended concentration, autobiographical statement, educational and professional goals, and area of interest for future research. Applicants to the ABA concentration must indicate the track in which they wish to enroll: School-Aged & Adult Populations (ABAS) or Young Children & Families (YCF).

5. **Three Letters of Recommendation**–Recommendation letters should be from individuals, preferably professors, who are able to comment on the student's qualifications and scholarly aptitude for doctoral study. The letter should also

address characteristics that will contribute to the student's success as a doctoral student should you be accepted in the ELPhD program. Consideration will be made based upon the content of these letters. Please make certain the recommenders know they must submit a letter as well as evaluate the applicant on a series of qualities (done when submitting the letter). Applications without three letters may not receive full consideration.

6. **Professional Curriculum Vitae (CV)/Resume**

7. **Interviews** - Applicants who pass the initial evaluation will be required to have an interview with the ELPhD program faculty and director of graduate programs.

8. **International Students** must also meet the English Language Requirement by providing TOEFL test scores: a minimum of 4.0 on the TOEFL is required. If you have taken another TOEFL version and the results are still valid (no more than 5 years old), the score requirement is 80 on TOEFL iBT.

Applicants who have citizenship in a country where English is a primary language or have been awarded a degree from a university in one of the following countries are exempt from the English Language requirement: Australia, Belize, the British Caribbean and British West Indies, Canada (except Quebec), England, Guyana, Ireland, Liberia, New Zealand, Scotland, the United States, and Wales.

If a candidate does not have access to a TOEFL testing site, it may be possible to accept another language proficiency test score. Candidates should inquire before submitting a test score other than the TOEFL.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework: 10 hours
- Research Coursework: 21 hours
- Dissertation: 15+ hours
- Core Concentration Coursework: 24 hours
- Advisor Guided Electives: 9 hours
- Total Degree Requirements: 79 hours

Degree Requirements

Type
Completion Requirement

Core Coursework (10 hours)

Complete ALL of the following Courses:
- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation

Research Coursework (21 hours)

Complete ALL of the following Courses:
- EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
- EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7420 - Quant Inquiry in Edu I
- EDU7430 - Quant Inquiry in Edu II
- EDU7900 - Scholarly Inquiry and Design Seminar
- EDU7920 - Research Seminar/Education

Dissertation (15 hours)

Complete ALL of the following Courses:
- EDU7990 - Research and Dissertation

The 15 hours are generally taken in 9 & 6 hour blocks.

Core Concentration Coursework (24 hours)

The Health Behavior and Wellness Education (HBWE) concentration offers cutting-edge, hands-on experiential courses along with related pedagogical methods and theory. HBWE research courses supply additional opportunities to research and address discipline-specific concerns. This comprehensive and novel design supplies students with the knowledge, skills, and abilities necessary to succeed professionally and lead change in health sciences and wellness disciplines. HBWE students will select 24 credit hours from the following courses:

Complete ALL of the following Courses:
- EDUH7000 - Current Issues in EXPW/EDUH
- EDUH7010 - Pedagogical Theory of Phy Edu
- EDUH7020 - Adv Tchng/Ex Sci-Hlth Rl Flds
- EDUH7030 - Grant Writing and Scholarly Publication in Exercise Science
- EDUH7100 - Biomechanics of Human Movement
- EDUH7200 - Foundations/Health Promotion
- EDUH7300 - Bhvrl Aspects/Phys Actvity
- EDUH7310 - Advanced Studies in Health Behavior and Health Behavior Change
- EDUH7500 - Hlth Bhvr & Welns Edu Rsrch
- EDUH7520 - Inquiry/Hlth Bhvr & Welns Edu
- EDUH7600 - Sp Top/EXPW
- EDUH7610 - Ind Study in EXPW/EDUH

Advisor Guided Electives (9 Hours)

Choose from the following for Guided Electives (other courses possible with approval): 6000- & 7000-level CSED, CUED, EDU, EDUB, EDUH, EDUL, EDUP, EDUS, SVCL, SPED, or other course as approved by the student's committee.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Program Requirements

The student must adhere to the specific regulations for the Ph.D. in Exceptional Learning program in addition to observing the general regulations of the College of Graduate Studies. These regulations, standards, and expectations include:

1. A minimum of 79 semester hours of successfully completed course work: 10 hours core courses, 21 hours research courses, 24 hours concentration courses, 9 hours elective courses, and a minimum of 15 dissertation hours. All hours should be taken at the 6000– and 7000–levels (transfer credit may include other level courses with approval). Note: if an equivalent specialty course is not available at the 6000– or 7000– level, a 5000–level course that is germane to the

student's research/areas of research interest may be used to meet the minimum requirements of course work only by permission of the instructor of the course in question, student's advisor or graduate advisory committee, and the Director of Graduate Programs. Written approval must be secured before enrolling; this may be through inclusion on the approved Program of Study or separate documentation, such as a Substitution form.

a. A minimum of 51 semester hours of course work beyond the baccalaureate must be completed after admittance into the doctoral program, including a minimum of 12 semester hours at the 7000- level (excluding dissertation credit).
b. Upon approval from the student's advisory committee and the Director of Graduate Programs, up to nine (9) graduate credit hours with a grade of B or better can be counted toward the first 33 hours of the ELPhD Program of Study; these may be credits that are independent of or included in a previously earned degree. Requests to transfer more than a total of 18 credit hours must be approved by the Director of Graduate Programs prior to submitting the Program of Study or transfer request. No more than 27 semester hours of credit at the Master's and Educational Specialist levels, excluding theses and problems courses, may be accepted for transfer credit toward the doctorate. All transfer credit must align with Tennessee Tech and SACSCOC guidelines.

2. All requirements, including the dissertation, must be completed within a period of no more than eight (8) consecutive years.

3. As and Bs are required in coursework. A grade of C is considered a failing grade in doctoral programs. The student is allowed to maintain a grade of C in only one (1) course completed toward the Ph.D. degree. A student receiving two (2) Cs will be dismissed from the program. If a second C is received, it may not be substituted or moved out of the student's program of study in order to avoid dismissal.

4. Ds and Fs are not acceptable in the Ph.D. in Exceptional Learning program. If a student receives a grade of D or F in a course, she/he will be dismissed from the program.

5. If an Incomplete is granted, the student has one (1) academic year to complete the requirements. If the requirements have not been met in the allotted time period, the grade is converted to an IF and the student will be dismissed from the program.

6. A maximum of twelve (12) credit hours may be taken in one (1) semester. Written approval from the student's advisor/chair, department chair, and director of graduate programs is required to register and take more than 12 credit hours in one semester.

7. Course repetition is not allowed in the ELPhD program.

8. Course substitutions are allowed upon written approval from the advisor/ graduate advisory committee, department chair, and director of graduate programs.

9. Students should complete their Comprehensive Examinations either a) following completion of all course work, excluding EDU 7920 and EDU 7990, or b) during the last semester during which such course work is to be completed. Comprehensive Examinations should occur no later than the end of the semester in which the student completes EDU 7920.

10. Approval of the dissertation topic, a successful dissertation proposal presentation to the entire graduate advisory committee, and IRB approval (where appropriate) must precede any significant work on the dissertation. IRB approval must be obtained for any human subjects research project initiated by a student (or faculty member); this includes studies using secondary data.

11. Satisfactory completion of the dissertation requires an oral defense.

12. Dissertation hours (15 hours minimum) may not be completed in fewer than 2 semesters.

EDU-LIT - Exceptional Learning, Critical Discourse and Literacy Studies, Ph.D.

Program Overview

Program Long Title
Exceptional Learning, Critical Discourse and Literacy Studies, Ph.D.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Exceptional Learning Ph.D. (ELPhD) program focuses on the characteristics, strengths, and educational needs of individuals and groups whose learning potential and opportunities for success are frequently unrealized. Exceptional populations include people for whom social, economic, and physical characteristics may serve as a barrier to development and learning.

The ELPhD program offers robust academic preparation of professionals who serve their communities, public school systems, institutions of higher education, and nontraditional educational environments. Our graduates are leaders who work across local, regional, national, and international platforms to effect positive change in diverse populations of exceptional learners and educational contexts, addressing barriers to learning, primarily through research and service activities.

The ELPhD curriculum is organized around three areas of knowledge development-core, concentration, and research. Core knowledge includes an orientation to the program, theory, foundations for understanding exceptional populations, program planning and evaluation, and technology. Concentration knowledge helps students to deepen and hone their specific interests. The innovative research sequence grounds students in quantitative and qualitative research methodologies.

Critical Discourse and Literacy Studies empowers educational innovators to develop cutting-edge, socially conscious approaches to multiliteracies and challenge narrow conceptions of learners, families, and worldviews. (Concentration Leader – Dr. Janet Isbell)

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework 10
- Core Concentration Coursework 24
- Advisor Guided Electives 9
- Research Coursework 21
- Dissertation 15+
- Total Degree Requirements 79

En-route M.A. or Ed.S Degree in Curriculum and Instruction (C&I)
A student pursuing an Exceptional Learning Ph.D. may elect to earn an en-route degree as they progress through the ELPhD program. Those students entering the program with no prior graduate degree may earn an M.A. in Curriculum & Instruction (C&I) with a Curriculum concentration, as the student successfully advances toward completion of the Ph.D. Those who enter the program with a graduate degree may elect to earn either the M.A. or an Ed.S. in Curriculum & Instruction with a Curriculum concentration.

If a student elects to forego the en-route degree, the full 79 credit hours of the program must be completed. The Ph.D. is not reduced to 46–49 hours, even if a student enters with one or more graduate degrees.

En-route M.A. in Curriculum & Instruction (with Curriculum concentration)

The en-route M.A. degree may be awarded when the student successfully completes 33 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The M.A. will not be awarded without completion of these 9 research credit hours.

Enroute-MA in Curriculum and Instruction

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 . 9 hours

Advisor Guided Electives 24 hours

TOTAL Hours for Enroute MA 33 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the M.A. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route M.A. portion of the program, unless special exception has been secured. Courses applied to the en-route M.A. must be completed within six years of enrollment.

The en-route M.A. degree may be awarded at any point during the program, given that the student:

• meets both the C&I M.A. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies.

Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route M.A. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 45–46 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

En-route Ed.S. in Curriculum & Instruction (with Curriculum concentration)

The en-route Ed.S. degree may be awarded when the student successfully completes 30 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The Ed.S. will not be awarded without completion of these 9 research credit hours.

Enroute-Ed.S. in Curriculum and Instruction Course Requirements Credit Hours:

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 9 hours

Advisor Guided Electives 21 hours

TOTAL Hours for Enroute 30 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the en-route Ed.S. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route Ed.S. portion of the program, unless special exception has been secured. Courses applied to the en-route Ed.S. must be completed within six years of enrollment.

The en-route Ed.S. degree may be awarded at any point during the program, given that the student:

• meets both the C&I Ed.S. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies. Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route Ed.S. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 48–49 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

Note: Only students admitted to the ELPhD program are permitted to enroll in these courses.

Admission Requirements

Admission Requirements

A multifaceted approach is taken in the application and admissions decisions process. The applicant will be evaluated on the criteria listed below in order to determine the applicant's overall potential for success in the ELPhD program. Please note, however, that fulfillment of the minimum requirements does not guarantee admission.

1. **QPA**–Consideration for admission to the program is based on the applicant's grade point average (GPA) in the last graduate degree or the last 60 hours of undergraduate work if no graduate degree has been completed. If a student has successfully completed some graduate hours but not attained a graduate degree, the GPA for these courses may also be considered. An average of 3.0 (on a 4.0 scale) or above from a recognized baccalaureate, graduate, or professional degree from an accredited college or university, or an international equivalent based on a four-year curriculum is required for admission.

2. **GRE**– valid GRE scores (score date within 5 years of application) must be submitted as part of the ELPhD application.

3. **Scholarly Writing**–Students must demonstrate scholarly writing skill and mastery by submitting a reference-based paper, thesis, or other written document. The writing sample should use multiple, credible sources to support a particular point of view, argument, or claim and show the applicant's writing quality, skillful analysis/argument, and proficiency with synthesizing information. The applicant must be the sole author. The scholarly writing sample does not have a specific topic requirement.

4. **Statement of Intent**–One (1) to two (2) pages that address the following: intended enrollment (semester and year), intended concentration, autobiographical statement, educational and professional goals, and area of interest for future research. Applicants to the ABA concentration must indicate the track in which they wish to enroll: School-Aged & Adult Populations (ABAS) or Young Children & Families (YCF).

5. **Three Letters of Recommendation**–Recommendation letters should be from individuals, preferably professors, who are able to comment on the student's qualifications and scholarly aptitude for doctoral study. The letter should also address characteristics that will contribute to the student's success as a doctoral student should you be accepted in the ELPhD program. Consideration will be

made based upon the content of these letters. Please make certain the recommenders know they must submit a letter as well as evaluate the applicant on a series of qualities (done when submitting the letter). Applications without three letters may not receive full consideration.

6. **Professional Curriculum Vitae (CV)/Resume**

7. **Interviews** - Applicants who pass the initial evaluation will be required to have an interview with the ELPhD program faculty and director of graduate programs.

8. **International Students** must also meet the English Language Requirement by providing TOEFL test scores: a minimum of 4.0 on the TOEFL is required. If you have taken another TOEFL version and the results are still valid (no more than 5 years old), the score requirement is 80 on TOEFL iBT.

Applicants who have citizenship in a country where English is a primary language or have been awarded a degree from a university in one of the following countries are exempt from the English Language requirement: Australia, Belize, the British Caribbean and British West Indies, Canada (except Quebec), England, Guyana, Ireland, Liberia, New Zealand, Scotland, the United States, and Wales.

If a candidate does not have access to a TOEFL testing site, it may be possible to accept another language proficiency test score. Candidates should inquire before submitting a test score other than the TOEFL.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework: 10 hours
- Research Coursework: 21 hours
- Dissertation: 15+ hours
- Core Concentration Coursework: 24 hours
- Advisor Guided Electives: 9 hours
- Total Degree Requirements: 79 hours

Degree Requirements

Type
Completion Requirement

Core Coursework (10 hours)

Complete ALL of the following Courses:
- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation

Research Coursework (21 hours)

Complete ALL of the following Courses:
- EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
- EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7420 - Quant Inquiry in Edu I
- EDU7430 - Quant Inquiry in Edu II
- EDU7900 - Scholarly Inquiry and Design Seminar
- EDU7920 - Research Seminar/Education

Dissertation (15 hours)

Complete ALL of the following Courses:
- EDU7990 - Research and Dissertation

The 15 hours are generally taken in 9 & 6 hour blocks.

Core Concentration Coursework (select 24 hours)

The Critical Discourse & Literacy concentration engages students in a continuum of exploration to develop well-rounded knowledge of literacy research, theory, and practice, as well as expand expertise in the student's choice of topic.

Earn at least 24 credits from the following:
- EDUL7100 - Literacy Hist, Theory & Policy
- EDUL7200 - Supporting Learners Impacted by Poverty
- EDUL7300 - Multiliteracies
- EDUL7400 - Language Theory and Applications
- EDUL7500 - Linguistic Perceptions
- EDUL7600 - The Literacy Professional
- EDUL7700 - Thry, Mthds, Trnds/Lit Rsrch
- EDUL7850 - Discourse Analysis
- EDUL7900 - Community Literacy

Advisor Guided Electives (9 Hours)

Choose from the following for Guided Electives (other courses possible with approval): 6000- & 7000-level CSED, CUED, EDU, EDUB, EDUH, EDUL, EDUP, EDUS, SVCL, SPED, or other course as approved by the student's committee.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Program Requirements

The student must adhere to the specific regulations for the Ph.D. in Exceptional Learning program in addition to observing the general regulations of the College of Graduate Studies. These regulations, standards, and expectations include:

1. A minimum of 79 semester hours of successfully completed course work: 10 hours core courses, 21 hours research courses, 24 hours concentration courses, 9 hours elective courses, and a minimum of 15 dissertation hours. All hours should be taken at the 6000– and 7000–levels (transfer credit may include other level courses with approval). Note: if an equivalent specialty course is not available at the 6000– or 7000– level, a 5000–level course that is germane to the student's research/areas of research interest may be used to meet the minimum requirements of course work only by permission of the instructor of the course in question, student's advisor or graduate advisory committee, and the Director of Graduate Programs. Written approval must be secured before enrolling; this may be through inclusion on the approved Program of Study or separate documentation, such as a Substitution form.

a. A minimum of 51 semester hours of course work beyond the baccalaureate must be completed after admittance into the doctoral program, including a minimum of 12 semester hours at the 7000- level (excluding dissertation credit).
b. Upon approval from the student's advisory committee and the Director of

Graduate Programs, up to nine (9) graduate credit hours with a grade of B or better can be counted toward the first 33 hours of the ELPhD Program of Study; these may be credits that are independent of or included in a previously earned degree. Requests to transfer more than a total of 18 credit hours must be approved by the Director of Graduate Programs prior to submitting the Program of Study or transfer request. No more than 27 semester hours of credit at the Master's and Educational Specialist levels, excluding theses and problems courses, may be accepted for transfer credit toward the doctorate. All transfer credit must align with Tennessee Tech and SACSCOC guidelines.

2. All requirements, including the dissertation, must be completed within a period of no more than eight (8) consecutive years.

3. As and Bs are required in coursework. A grade of C is considered a failing grade in doctoral programs. The student is allowed to maintain a grade of C in only one (1) course completed toward the Ph.D. degree. A student receiving two (2) Cs will be dismissed from the program. If a second C is received, it may not be substituted or moved out of the student's program of study in order to avoid dismissal.

4. Ds and Fs are not acceptable in the Ph.D. in Exceptional Learning program. If a student receives a grade of D or F in a course, she/he will be dismissed from the program.

5. If an Incomplete is granted, the student has one (1) academic year to complete the requirements. If the requirements have not been met in the allotted time period, the grade is converted to an IF and the student will be dismissed from the program.

6. A maximum of twelve (12) credit hours may be taken in one (1) semester. Written approval from the student's advisor/chair, department chair, and director of graduate programs is required to register and take more than 12 credit hours in one semester.

7. Course repetition is not allowed in the ELPhD program.

8. Course substitutions are allowed upon written approval from the advisor/graduate advisory committee, department chair, and director of graduate programs.

9. Students should complete their Comprehensive Examinations either a) following completion of all course work, excluding EDU 7920 and EDU 7990, or b) during the last semester during which such course work is to be completed. Comprehensive Examinations should occur no later than the end of the semester in which the student completes EDU 7920.

10. Approval of the dissertation topic, a successful dissertation proposal presentation to the entire graduate advisory committee, and IRB approval (where appropriate) must precede any significant work on the dissertation. IRB approval must be obtained for any human subjects research project initiated by a student (or faculty member); this includes studies using secondary data.

11. Satisfactory completion of the dissertation requires an oral defense.

12. Dissertation hours (15 hours minimum) may not be completed in fewer than 2 semesters.

EDU-PPLE - Exceptional Learning, Program Planning and Evaluation Concentration, Ph.D.

Program Overview

Program Long Title

Exceptional Learning, Program Planning and Evaluation Concentration, Ph.D.

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

The Exceptional Learning Ph.D. (ELPhD) program focuses on the characteristics, strengths, and educational needs of individuals and groups whose learning potential and opportunities for success are frequently unrealized. Exceptional populations include people for whom social, economic, and physical characteristics may serve as a barrier to development and learning.

The ELPhD program offers robust academic preparation of professionals who serve their communities, public school systems, institutions of higher education, and nontraditional educational environments. Our graduates are leaders who work across local, regional, national, and international platforms to effect positive change in diverse populations of exceptional learners and educational contexts, addressing barriers to learning, primarily through research and service activities.

The ELPhD curriculum is organized around three areas of knowledge development-core, concentration, and research. Core knowledge includes an orientation to the program, theory, foundations for understanding exceptional populations, program planning and evaluation, and technology. Concentration knowledge helps students to deepen and hone their specific interests. The innovative research sequence grounds students in quantitative and qualitative research methodologies.

Program Planning and Evaluation (PPE) prepares professionals for leadership roles in the field of PPE. Program content includes the history of the field, influence in context and cultures in PPE design and methodology, quantitative and qualitative methods, and practical application of PPE skills through practicum experiences. (Concentration Leader – Dr. George Chitiyo)

Curriculum

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework 10
- Core Concentration Coursework 24
- Advisor Guided Electives 9
- Research Coursework 21
- Dissertation 15+
- Total Degree Requirements 79

En-route M.A. or Ed.S Degree in Curriculum and Instruction (C&I)

A student pursuing an Exceptional Learning Ph.D. may elect to earn an en-route degree as they progress through the ELPhD program. Those students entering the program with no prior graduate degree may earn an M.A. in Curriculum & Instruction (C&I) with a Curriculum concentration, as the student successfully advances toward completion of the Ph.D. Those who enter the program with a graduate degree may elect to earn either the M.A. or an Ed.S. in Curriculum & Instruction with a Curriculum concentration.

If a student elects to forego the en-route degree, the full 79 credit hours of the program must be completed. The Ph.D. is not reduced to 46–49 hours, even if a student enters with one or more graduate degrees.

En-route M.A. in Curriculum & Instruction (with Curriculum concentration)

The en-route M.A. degree may be awarded when the student successfully completes 33 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The M.A. will not be awarded without completion of these 9 research credit hours.

Enroute-MA in Curriculum and Instruction

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 . 9 hours

Advisor Guided Electives 24 hours

TOTAL Hours for Enroute MA 33 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the M.A. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route M.A. portion of the program, unless special exception has been secured. Courses applied to the en-route M.A. must be completed within six years of enrollment.

The en-route M.A. degree may be awarded at any point during the program, given that the student:

• meets both the C&I M.A. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies.

Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route M.A. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 45–46 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

En-route Ed.S. in Curriculum & Instruction (with Curriculum concentration)

The en-route Ed.S. degree may be awarded when the student successfully completes 30 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The Ed.S. will not be awarded without completion of these 9 research credit hours.

Enroute-Ed.S. in Curriculum and Instruction Course Requirements Credit Hours:

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 9 hours

Advisor Guided Electives 21 hours

TOTAL Hours for Enroute 30 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the en-route Ed.S. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route Ed.S. portion of the program, unless special exception has been secured. Courses applied to the en-route Ed.S. must be completed within six years of enrollment.

The en-route Ed.S. degree may be awarded at any point during the program, given that the student:

• meets both the C&I Ed.S. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies. Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route Ed.S. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 48–49 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

Note: Only students admitted to the ELPhD program are permitted to enroll in these courses.

Admission Requirements

Admission Requirements

A multifaceted approach is taken in the application and admissions decisions process. The applicant will be evaluated on the criteria listed below in order to determine the applicant's overall potential for success in the ELPhD program. Please note, however, that fulfillment of the minimum requirements does not guarantee admission.

1. **QPA**–Consideration for admission to the program is based on the applicant's grade point average (GPA) in the last graduate degree or the last 60 hours of undergraduate work if no graduate degree has been completed. If a student has successfully completed some graduate hours but not attained a graduate degree, the GPA for these courses may also be considered. An average of 3.0 (on a 4.0 scale) or above from a recognized baccalaureate, graduate, or professional degree from an accredited college or university, or an international equivalent based on a four-year curriculum is required for admission.

2. **GRE**– valid GRE scores (score date within 5 years of application) must be submitted as part of the ELPhD application.

3. **Scholarly Writing**–Students must demonstrate scholarly writing skill and mastery by submitting a reference-based paper, thesis, or other written document. The writing sample should use multiple, credible sources to support a particular point of view, argument, or claim and show the applicant's writing quality, skillful analysis/argument, and proficiency with synthesizing information. The applicant must be the sole author. The scholarly writing sample does not have a specific topic requirement.

4. **Statement of Intent**–One (1) to two (2) pages that address the following: intended enrollment (semester and year), intended concentration, autobiographical statement, educational and professional goals, and area of interest for future research. Applicants to the ABA concentration must indicate the track in which they wish to enroll: School-Aged & Adult Populations (ABAS) or Young Children & Families (YCF).

5. **Three Letters of Recommendation**–Recommendation letters should be from individuals, preferably professors, who are able to comment on the student's qualifications and scholarly aptitude for doctoral study. The letter should also address characteristics that will contribute to the student's success as a doctoral student should you be accepted in the ELPhD program. Consideration will be made based upon the content of these letters. Please make certain the

recommenders know they must submit a letter as well as evaluate the applicant on a series of qualities (done when submitting the letter). Applications without three letters may not receive full consideration.

6. **Professional Curriculum Vitae (CV)/Resume**

7. **Interviews** - Applicants who pass the initial evaluation will be required to have an interview with the ELPhD program faculty and director of graduate programs.

8. **International Students** must also meet the English Language Requirement by providing TOEFL test scores: a minimum of 4.0 on the TOEFL is required. If you have taken another TOEFL version and the results are still valid (no more than 5 years old), the score requirement is 80 on TOEFL iBT.

Applicants who have citizenship in a country where English is a primary language or have been awarded a degree from a university in one of the following countries are exempt from the English Language requirement: Australia, Belize, the British Caribbean and British West Indies, Canada (except Quebec), England, Guyana, Ireland, Liberia, New Zealand, Scotland, the United States, and Wales.

If a candidate does not have access to a TOEFL testing site, it may be possible to accept another language proficiency test score. Candidates should inquire before submitting a test score other than the TOEFL.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework: 10 hours
- Research Coursework: 21 hours
- Dissertation: 15+ hours
- Core Concentration Coursework: 24 hours
- Advisor Guided Electives: 9 hours
- Total Degree Requirements: 79 hours

Degree Requirements

Type
Completion Requirement

Core Coursework (10 hours)

Complete ALL of the following Courses:
- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation

Research Coursework (21 hours)

Complete ALL of the following Courses:
- EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
- EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7420 - Quant Inquiry in Edu I
- EDU7430 - Quant Inquiry in Edu II
- EDU7900 - Scholarly Inquiry and Design Seminar
- EDU7920 - Research Seminar/Education

Dissertation (15 hours)

Complete ALL of the following Courses:
- EDU7990 - Research and Dissertation

The 15 hours are generally taken in 9 & 6 hour blocks.

Core Concentration Coursework (24 hours)

This concentration prepares professionals for leadership roles in program planning and evaluation in various settings. In addition to exposing students to different theories of evaluation, the program equips students with both qualitative and quantitative research/evaluation methods.

Complete ALL of the following Courses:
- EDUP7410 - Adv Planning & Eval Meth I
- EDUP7420 - Adv Planning & Eval Meth II
- EDU7350 - Advanced Regression Analysis
- EDUP7810 - Pract/Planning & Evaluation
- 15 credit hours of EDUP7810 Pract/Planning & Evaluation is required, and may be taken in blocks of 3, 6, and/or 9 credit hours.

Advisor Guided Electives (9 Hours)

Choose from the following for Guided Electives (other courses possible with approval): 6000- & 7000-level CSED, CUED, EDU, EDUB, EDUH, EDUL, EDUP, EDUS, SVCL, SPED, or other course as approved by the student's committee

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Program Requirements

The student must adhere to the specific regulations for the Ph.D. in Exceptional Learning program in addition to observing the general regulations of the College of Graduate Studies. These regulations, standards, and expectations include:

1. A minimum of 79 semester hours of successfully completed course work: 10 hours core courses, 21 hours research courses, 24 hours concentration courses, 9 hours elective courses, and a minimum of 15 dissertation hours. All hours should be taken at the 6000– and 7000–levels (transfer credit may include other level courses with approval). Note: if an equivalent specialty course is not available at the 6000– or 7000– level, a 5000–level course that is germane to the student's research/areas of research interest may be used to meet the minimum requirements of course work only by permission of the instructor of the course in question, student's advisor or graduate advisory committee, and the Director of Graduate Programs. Written approval must be secured before enrolling; this may be through inclusion on the approved Program of Study or separate documentation, such as a Substitution form.

a. A minimum of 51 semester hours of course work beyond the baccalaureate must be completed after admittance into the doctoral program, including a minimum of 12 semester hours at the 7000- level (excluding dissertation credit).
b. Upon approval from the student's advisory committee and the Director of Graduate Programs, up to nine (9) graduate credit hours with a grade of B or better can be counted toward the first 33 hours of the ELPhD Program of Study; these may be credits that are independent of or included in a previously earned

degree. Requests to transfer more than a total of 18 credit hours must be approved by the Director of Graduate Programs prior to submitting the Program of Study or transfer request. No more than 27 semester hours of credit at the Master's and Educational Specialist levels, excluding theses and problems courses, may be accepted for transfer credit toward the doctorate. All transfer credit must align with Tennessee Tech and SACSCOC guidelines.

2. All requirements, including the dissertation, must be completed within a period of no more than eight (8) consecutive years.

3. As and Bs are required in coursework. A grade of C is considered a failing grade in doctoral programs. The student is allowed to maintain a grade of C in only one (1) course completed toward the Ph.D. degree. A student receiving two (2) Cs will be dismissed from the program. If a second C is received, it may not be substituted or moved out of the student's program of study in order to avoid dismissal.

4. Ds and Fs are not acceptable in the Ph.D. in Exceptional Learning program. If a student receives a grade of D or F in a course, she/he will be dismissed from the program.

5. If an Incomplete is granted, the student has one (1) academic year to complete the requirements. If the requirements have not been met in the allotted time period, the grade is converted to an IF and the student will be dismissed from the program.

6. A maximum of twelve (12) credit hours may be taken in one (1) semester. Written approval from the student's advisor/chair, department chair, and director of graduate programs is required to register and take more than 12 credit hours in one semester.

7. Course repetition is not allowed in the ELPhD program.

8. Course substitutions are allowed upon written approval from the advisor/graduate advisory committee, department chair, and director of graduate programs.

9. Students should complete their Comprehensive Examinations either a) following completion of all course work, excluding EDU 7920 and EDU 7990, or b) during the last semester during which such course work is to be completed. Comprehensive Examinations should occur no later than the end of the semester in which the student completes EDU 7920.

10. Approval of the dissertation topic, a successful dissertation proposal presentation to the entire graduate advisory committee, and IRB approval (where appropriate) must precede any significant work on the dissertation. IRB approval must be obtained for any human subjects research project initiated by a student (or faculty member); this includes studies using secondary data.

11. Satisfactory completion of the dissertation requires an oral defense.

12. Dissertation hours (15 hours minimum) may not be completed in fewer than 2 semesters.

EDU-STEM - Exceptional Learning, STEM Education Concentration, Ph.D.

Program Overview

Program Long Title
Exceptional Learning, STEM Education Concentration, Ph.D.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Exceptional Learning Ph.D. (ELPhD) program focuses on the characteristics, strengths, and educational needs of individuals and groups whose learning potential and opportunities for success are frequently unrealized. Exceptional populations include people for whom social, economic, and physical characteristics may serve as a barrier to development and learning.

The ELPhD program offers robust academic preparation of professionals who serve their communities, public school systems, institutions of higher education, and nontraditional educational environments. Our graduates are leaders who work across local, regional, national, and international platforms to effect positive change in diverse populations of exceptional learners and educational contexts, addressing barriers to learning, primarily through research and service activities.

The ELPhD curriculum is organized around three areas of knowledge development-core, concentration, and research. Core knowledge includes an orientation to the program, theory, foundations for understanding exceptional populations, program planning and evaluation, and technology. Concentration knowledge helps students to deepen and hone their specific interests. The innovative research sequence grounds students in quantitative and qualitative research methodologies.

STEM Education builds the capacity of innovative educational leaders to advance new ideas and to design/implement strategic innovations in science, technology, engineering and mathematics (STEM) education. (Concentration Leader – Dr. Holly Anthony)

Curriculum
The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework 10
- Core Concentration Coursework 24
- Advisor Guided Electives 9
- Research Coursework 21
- Dissertation 15+
- Total Degree Requirements 79

En-route M.A. or Ed.S Degree in Curriculum and Instruction (C&I)
A student pursuing an Exceptional Learning Ph.D. may elect to earn an en-route degree as they progress through the ELPhD program. Those students entering the program with no prior graduate degree may earn an M.A. in Curriculum & Instruction (C&I) with a Curriculum concentration, as the student successfully advances toward completion of the Ph.D. Those who enter the program with a graduate degree may elect to earn either the M.A. or an Ed.S. in Curriculum & Instruction with a Curriculum concentration.

If a student elects to forego the en-route degree, the full 79 credit hours of the program must be completed. The Ph.D. is not reduced to 46–49 hours, even if a student enters with one or more graduate degrees.

En-route M.A. in Curriculum & Instruction (with Curriculum concentration)

The en-route M.A. degree may be awarded when the student successfully completes 33 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The M.A. will not be awarded without completion of these 9 research credit hours.

Enroute-MA in Curriculum and Instruction

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 . 9 hours

Advisor Guided Electives 24 hours

TOTAL Hours for Enroute MA 33 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the M.A. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route M.A. portion of the program, unless special exception has been secured. Courses applied to the en-route M.A. must be completed within six years of enrollment.

The en-route M.A. degree may be awarded at any point during the program, given that the student:

• meets both the C&I M.A. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies.

Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route M.A. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 45–46 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

En-route Ed.S. in Curriculum & Instruction (with Curriculum concentration)

The en-route Ed.S. degree may be awarded when the student successfully completes 30 semester credit hours and must include successful completion of nine (9) credit hours of either quantitative (EDU 7420, EDU 7430, and EDU 7300) or qualitative (EDU 7010, EDU 7330, and EDU 7340) research. The Ed.S. will not be awarded without completion of these 9 research credit hours.

Enroute-Ed.S. in Curriculum and Instruction Course Requirements Credit Hours:

Research Requirement: Quantitative Track: EDU7420, EDU 7430 and EDU 7300 OR Qualitative Track: EDU 7010, EDU 7330 and EDU 7340 9 hours

Advisor Guided Electives 21 hours

TOTAL Hours for Enroute 30 hours

Students who have already earned a graduate degree before entering the ELPhD program or who have taken graduate courses that are relevant to the program (and for which the grade is a B or better) may be eligible to transfer in up to 9 credits for the en-route Ed.S. portion of the ELPhD program of study. Any courses taken or transferred in at the 5000-level must be applied to the en-route Ed.S. portion of the program, unless special exception has been secured. Courses applied to the en-route Ed.S. must be completed within six years of enrollment.

The en-route Ed.S. degree may be awarded at any point during the program, given that the student:

• meets both the C&I Ed.S. and Ph.D. research course requirements as listed above;

• has submitted an approved Program of Study with signatures from the student's advisory committee, the Chair of C&I, and the Director of Graduate Programs;

• has satisfied all College of Graduate Studies General Degree Requirements policies; and

• has applied for graduation in accordance with the requirements of the College of Graduate Studies. Students must apply for graduation as required in order to earn their en-route degree—it is not automatically awarded.

Once the en-route Ed.S. in Curriculum & Instruction has been awarded, the remaining portion of the Program of Study must include a minimum of 48–49 semester credits of appropriate graduate-level coursework consisting of research, concentration, core, and elective credits at the 6000– and 7000–level, as approved by the student's advisory committee and the Director of Graduate Programs. A minimum of 15 semester credit hours of doctoral research and dissertation is required in no fewer than two (2) semesters.

Note: Only students admitted to the ELPhD program are permitted to enroll in these courses.

Admission Requirements

Admission Requirements

A multifaceted approach is taken in the application and admissions decisions process. The applicant will be evaluated on the criteria listed below in order to determine the applicant's overall potential for success in the ELPhD program. Please note, however, that fulfillment of the minimum requirements does not guarantee admission.

1. **QPA**–Consideration for admission to the program is based on the applicant's grade point average (GPA) in the last graduate degree or the last 60 hours of undergraduate work if no graduate degree has been completed. If a student has successfully completed some graduate hours but not attained a graduate degree, the GPA for these courses may also be considered. An average of 3.0 (on a 4.0 scale) or above from a recognized baccalaureate, graduate, or professional degree from an accredited college or university, or an international equivalent based on a four-year curriculum is required for admission.

2. **GRE**– valid GRE scores (score date within 5 years of application) must be submitted as part of the ELPhD application.

3. **Scholarly Writing**–Students must demonstrate scholarly writing skill and mastery by submitting a reference-based paper, thesis, or other written document. The writing sample should use multiple, credible sources to support a particular point of view, argument, or claim and show the applicant's writing quality, skillful analysis/argument, and proficiency with synthesizing information. The applicant must be the sole author. The scholarly writing sample does not have a specific topic requirement.

4. **Statement of Intent**–One (1) to two (2) pages that address the following: intended enrollment (semester and year), intended concentration, autobiographical statement, educational and professional goals, and area of interest for future research. Applicants to the ABA concentration must indicate the track in which they wish to enroll: School-Aged & Adult Populations (ABAS) or Young Children & Families (YCF).

5. **Three Letters of Recommendation**–Recommendation letters should be from individuals, preferably professors, who are able to comment on the student's qualifications and scholarly aptitude for doctoral study. The letter should also address characteristics that will contribute to the student's success as a doctoral student should you be accepted in the ELPhD program. Consideration will be made based upon the content of these letters. Please make certain the

recommenders know they must submit a letter as well as evaluate the applicant on a series of qualities (done when submitting the letter). Applications without three letters may not receive full consideration.

6. **Professional Curriculum Vitae (CV)/Resume**

7. **Interviews** - Applicants who pass the initial evaluation will be required to have an interview with the ELPhD program faculty and director of graduate programs.

8. **International Students** must also meet the English Language Requirement by providing TOEFL test scores: a minimum of 4.0 on the TOEFL is required. If you have taken another TOEFL version and the results are still valid (no more than 5 years old), the score requirement is 80 on TOEFL iBT.

Applicants who have citizenship in a country where English is a primary language or have been awarded a degree from a university in one of the following countries are exempt from the English Language requirement: Australia, Belize, the British Caribbean and British West Indies, Canada (except Quebec), England, Guyana, Ireland, Liberia, New Zealand, Scotland, the United States, and Wales.

If a candidate does not have access to a TOEFL testing site, it may be possible to accept another language proficiency test score. Candidates should inquire before submitting a test score other than the TOEFL.

*Please note the STEM Education concentration requires the following additional admission requirements:

1. Three years of STEM teaching/outreach (P–16)

2. Master's Degree and

3. One of the following:
o A minimum of 18 semester hours of graduate credit in a STEM discipline;
o Teacher Licensure in a STEM discipline (Grades 6-8, 6–12, or 7-12);
o Teacher Licensure (K-5) with 24 semester hours in math/science; or
o Teacher Licensure (K-5) with a passing score on the state-approved licensure exam for a STEM content area.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Exceptional Learning Ph.D. requires 79 credit hours and is organized into three core areas: Core Knowledge, Research Knowledge, and Concentration Knowledge. Credit hours are classified as follows:

- Core Coursework: 10 hours
- Research Coursework: 21 hours
- Dissertation: 15+ hours
- Core Concentration Coursework: 24 hours
- Advisor Guided Electives: 9 hours
- Total Degree Requirements: 79 hours

Exceptional Learning Ph.D. requires 79 credit hours

Type
Completion Requirement

Core Coursework (10 hours)

Complete ALL of the following Courses:
- EDU7000 - Trans-Concentration Seminar
- EDU7010 - Theoretical Foundtns/Research
- EDU7020 - At-Risk Population: Research, Service, and Delivery
- EDU7040 - Program Planning/Evaluation

Research Coursework (21 hours)

Complete ALL of the following Courses:
- EDU7300 - Research Design
- EDU7330 - Qualitative Inquiry/Research
- EDU7340 - Data Analysis/Reprsnt/Qual Inq
- EDU7420 - Quant Inquiry in Edu I
- EDU7430 - Quant Inquiry in Edu II
- EDU7900 - Scholarly Inquiry and Design Seminar
- EDU7920 - Research Seminar/Education

Dissertation (15 hours)

The 15 hours are generally taken in 9 & 6 hour blocks.

Complete ALL of the following Courses:
- EDU7990 - Research and Dissertation

STEM Education Concentration (24 hours)

The STEM education concentration provides students with the background and experience needed to assume leadership roles in the development, delivery, and assessment of STEM education programs.

Complete ALL of the following Courses:
- EDUS7500 - STEM Education Foundations
- EDUS7510 - STEM Curriculum & Assessment
- EDUS7515 - STEM Education Seminar
  OR EDUS7520 - STEM Technology Seminar
- EDUS7530 - STEM Education Research
- EDUS7540 - STEM Education Pedagogy
- EDUS7550 - STEM Edu Trends and Issues
- EDUS7560 - STEM Learns and Learning
- EDUS7570 - STEM Edu Policy & Leadership
- EDUS7580 - STEM Education Field Study

Advisor Guided Electives (9 hours)

Choose from the following for Guided Electives (other courses possible with approval): 6000- & 7000-level CSED, CUED, EDU, EDUB, EDUH, EDUL, EDUP, EDUS, SVCL, SPED, or other course as approved by the student's committee.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Program Requirements

The student must adhere to the specific regulations for the Ph.D. in Exceptional Learning program in addition to observing the general regulations of the College of Graduate Studies. These regulations, standards, and expectations include:

1. A minimum of 79 semester hours of successfully completed course work: 10 hours core courses, 21 hours research courses, 24 hours concentration courses, 9 hours elective courses, and a minimum of 15 dissertation hours. All hours should be taken at the 6000– and 7000–levels (transfer credit may include other level courses with approval). Note: if an equivalent specialty course is not available at the 6000– or 7000– level, a 5000–level course that is germane to the

student's research/areas of research interest may be used to meet the minimum requirements of course work only by permission of the instructor of the course in question, student's advisor or graduate advisory committee, and the Director of Graduate Programs. Written approval must be secured before enrolling; this may be through inclusion on the approved Program of Study or separate documentation, such as a Substitution form.

a. A minimum of 51 semester hours of course work beyond the baccalaureate must be completed after admittance into the doctoral program, including a minimum of 12 semester hours at the 7000- level (excluding dissertation credit).
b. Upon approval from the student's advisory committee and the Director of Graduate Programs, up to nine (9) graduate credit hours with a grade of B or better can be counted toward the first 33 hours of the ELPhD Program of Study; these may be credits that are independent of or included in a previously earned degree. Requests to transfer more than a total of 18 credit hours must be approved by the Director of Graduate Programs prior to submitting the Program of Study or transfer request. No more than 27 semester hours of credit at the Master's and Educational Specialist levels, excluding theses and problems courses, may be accepted for transfer credit toward the doctorate. All transfer credit must align with Tennessee Tech and SACSCOC guidelines.

2. All requirements, including the dissertation, must be completed within a period of no more than eight (8) consecutive years.

3. As and Bs are required in coursework. A grade of C is considered a failing grade in doctoral programs. The student is allowed to maintain a grade of C in only one (1) course completed toward the Ph.D. degree. A student receiving two (2) Cs will be dismissed from the program. If a second C is received, it may not be substituted or moved out of the student's program of study in order to avoid dismissal.

4. Ds and Fs are not acceptable in the Ph.D. in Exceptional Learning program. If a student receives a grade of D or F in a course, she/he will be dismissed from the program.

5. If an Incomplete is granted, the student has one (1) academic year to complete the requirements. If the requirements have not been met in the allotted time period, the grade is converted to an IF and the student will be dismissed from the program.

6. A maximum of twelve (12) credit hours may be taken in one (1) semester. Written approval from the student's advisor/chair, department chair, and director of graduate programs is required to register and take more than 12 credit hours in one semester.

7. Course repetition is not allowed in the ELPhD program.

8. Course substitutions are allowed upon written approval from the advisor/ graduate advisory committee, department chair, and director of graduate programs.

9. Students should complete their Comprehensive Examinations either a) following completion of all course work, excluding EDU 7920 and EDU 7990, or b) during the last semester during which such course work is to be completed. Comprehensive Examinations should occur no later than the end of the semester in which the student completes EDU 7920.

10. Approval of the dissertation topic, a successful dissertation proposal presentation to the entire graduate advisory committee, and IRB approval (where appropriate) must precede any significant work on the dissertation. IRB approval must be obtained for any human subjects research project initiated by a student (or faculty member); this includes studies using secondary data.

11. Satisfactory completion of the dissertation requires an oral defense.

12. Dissertation hours (15 hours minimum) may not be completed in fewer than 2 semesters.

EMGT-MS - Engineering Management, M.S.

Program Overview

Program Long Title
Engineering Management, M.S.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Catalog Full Description
The Master of Science in Engineering Management (MSEM) is a 100% online program offered by the College of Engineering with support from the College of Business. The degree is designed to provide early-career engineering and related technical professionals with leadership and management knowledge, skills, and tools for advancing their job performance and the performance of the organizations that employ them. The focus of the program is on the management of technology-based projects and technical people and organizations, and the goal is to combine the application of business theory with the best practices in engineering. The program content is applicable to technical professionals in state and federal agencies, small businesses, and large corporations.

Academic components of the program include the applicable and appropriate use of a variety of quantitative tools for decision making, the effective supervision of organizational personnel, and project and process management, including but not limited to risk management, resource allocation, and systems engineering. Courses will be taught by expert faculty in both related fields.

The Master of Science in Engineering Management is a 33 hour program. Students will complete a business core of courses and engineering core as follows:

- **Core Business Courses:** 12 hours
- **Core Engineering Courses:** 21 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements
The admission decision to the MS in Engineering Management program is based on the following criteria:

1. **Undergraduate GPA:** at least 3.0 on a 4.0 scale.
2. **Bachelor’s degree:** a bachelor’s degree from an accredited program in engineering, science, or related area, all requiring mathematics at least through differential and integral calculus and including an upper division (junior or senior level) course in probability and statistics.
3. **Letters of Recommendation:** two letters of recommendation that demonstrate strong evidence for success in the graduate program.
4. **Resume and Statement of Purpose:** Current resume and a one-page (350-500 words) statement of purpose. The resume and statement of purpose may include professional considerations not specifically mentioned in the above three criteria, such as relevant work experience, certifications, or test scores.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Master of Science in Engineering Management is a 33 hour program. Students will complete a business core of courses and engineering core as follows:

- Core Business Courses: 12 hours
- Core Engineering Courses: 21 hours
- Total Degree Requirements: 33 hours

Degree Requirements

Type
Completion Requirement

Core Business Courses (12 hours)

Complete ALL of the following Courses:
- ACCT6010 - Acct Info for Mgmt Decisions
- BMGT6200 - Organizational Leadership
- FIN6020 - Financial Management
- MKT6100 - Strategic Marketing

Core Engineering Courses (21 hours)

Complete ALL of the following Courses:
- EMGT6100 - Intro/Engineering Management
- EMGT6210 - Project Management for Engineers
- EMGT6220 - Project Development and Relationships
- EMGT6230 - Systems Engineering Management
- EMGT6300 - Decision Analysis
- EMGT6900 - Professional Project
- ENGR6200 - Statistical Inference for Engr

ENG-CW - English, Creative Writing Concentration, M.A.

Program Overview

Program Long Title
English, Creative Writing Concentration, M.A.

College/School
Arts and Sciences

Department(s)
English

Catalog Full Description
The Master of Arts degree program in the Department of English prepares graduates for success in any further graduate and professional education that might require superior analytical and communication skills, as well as for careers outside the academic world wherever superior analytical and communication skills and knowledge of literary and cultural traditions are essential. Our English M.A. also provides superb grounding for seeking a Ph.D. in English by increasing students' knowledge of literary history and improving their skills in writing, literary analysis, and research. Graduates can also become effective high-school or college-level teachers by improving their knowledge of writing pedagogy and theory.

The M.A. concentration in Creative Writing helps students develop their writing as poets, fiction writers, and creative essayists beyond skills developed at the undergraduate level. Students in this concentration may be looking to develop their talents to the point where they can gain entrance to a prestigious M.F.A. or Ph.D. program in Creative Writing. They may be seeking space to study writing in the context of graduate literary study in English, working with professors who are themselves published authors. They may be refining their writing with the goal of publication, or just creating work of publication quality and honing their craft. We offer advanced courses in Poetry and Prose Writing with very small enrollment, facilitating one-on-one work with our creative writing faculty, as well as workshops where graduate students learn not just from professors but from fellow student writers, participating in the conversations that help build nuanced skills as creative artists.

We offer the thesis option for the Creative Writing M.A.

Thesis Option
- **Core Required Courses:** 12 hours
- **Concentration Content Courses:** 12 hours
- **Research and Thesis Requirement:** 6 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements
1. An official transcript of undergraduate work reflecting an overall QPA of 2.5 or above
2. All applicants submit a statement of purpose. The statement of purpose should be no longer than two pages and include the following information:

- Description of the skills and qualities the candidate brings to the program
- Candidate’s motivation for obtaining an MA in English
- Candidate’s long-term goals in seeking an MA in English how the MA in English contributes to the achievement of those goals

*If the applicant is applying for a Teaching Assistantship, the candidate should use this statement to address the candidate's teaching interests and how the teaching assistantship contributes to the applicant's overall goals.

3. A writing sample for Creative Writing concentration applicants of 12-15 pages comprised of prose (fiction or essay), poetry, or a combination of genres.

For students seeking a Graduate Teaching Assistantship (in-person status only): three letters of recommendation and the Graduate Assistantship Application form.

For full consideration, applicants for Fall admission must submit all application materials by January 10, and applicants for Spring admission must submit all materials by September 1. Applications will be accepted after these dates, but it is not guaranteed that we will have any assistantships left.

Only complete applications will be considered. Submit all application materials to the College of Graduate Studies in the application system.

Two types of student status are available, on-campus or hybrid. Learn more about the difference here.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Creative Writing concentration is only offered as a thesis option. An oral defense is required for all concentrations.

Thesis Option

- Core Required Courses: 12 hours
- Concentration Content Courses: 12 hours
- Research and Thesis Requirement: 6 hours
- Total Degree Requirements: 30 hours

Thesis Option

Type

Completion Requirement

Core Required Courses (12 hours)

Complete all the following requirements:

- ENGL6000 Intro-Graduate Studies Intro-Graduate Studies
- PC6060 Digital Design Digital Design
- ENGL6740 Publishing Theory and Practice Publishing Theory and Practice
- One 6000-level Literature course

  When necessary, a committee of the instructor of record, the department chair, and the graduate advisor will determine how a course fits into the existing curriculum.

Concentration Content Courses (12 hours)

Complete three courses from among the following (must take 5000-level in dual-listed courses).

- ENGL6710 Creative Writing Workshop Creative Writing Workshop 3 credit hours
- ENGL6720 Writing Craft Writing Craft 3 credit hours
- ENGL6850 English Internship Internship 3 credit hours OR any PC/ENGL 5000/6000-level course 3credit hours
- Students with assistantships take ENGL6010 Teaching Composition as part of the concentration courses. Students who do not have an assistantship take 3 hours of any PC/ ENGL 5000/6000-level courses.

Research and Thesis Requirement (6 hours):

Student may choose to complete 6 hours of ENGL6990 Research & Thesis OR complete ENGL6005 L3kfjnv3gLNyzjVMIAOi - Missing course, 3 hours, and ENGL6990 Research & Thesis, 3 hours.

Courses Previously Taken as an Undergraduate

The following courses may be taken at the 5000 level by a graduate student who has previously taken the course as an undergraduate, provided the content is different. Applicable courses include:

- ENGL 5210 18th Century British Lit
- ENGL 5250 Post-Modern Literatures
- ENGL 5310 Early American Literature
- ENGL 5330 Modern American Literature
- ENGL 5430 Creative Writing: Fiction
- ENGL 5440 Creative Writing: Essay
- ENGL 5450 Creative Writing: Poetry
- ENGL 5610 Novel
- ENGL 5630 Literary Criticism and Theory
- ENGL 5650 The Graphic Novel
- ENGL 5712 African American Literature
- ENGL 5713 Native American Literature
- ENGL 5931 Lit and the Environment
- ENGL 5970 Professional Comm II
- PC 5850 Internship
- PC 5940 Technical Editing
- PC 5970 Professional Comm II
- PC 5990 Bus/Grant Proposal Writing

Course Repeatability Options

Courses may be repeated one time by a graduate student, provided the content is different. Applicable courses include:

- ENGL 6020 Seminar in Early British Lit
- ENGL 6080 Sem in British Lit/1500-1650
- ENGL 6150 Sem in British Lit/1650-1800
- ENGL 6400 Special Topics
- ENGL 6520 Sem in Early American Lit
- ENGL 6590 Sem in 19th Cent American Lit
- ENGL 6640 Sem/20th & 21st Cent Amer Lit
- PC 6030 Core Iss/Rsrch-Prof Tech Comm
- PC 6040 Special Topics: PTC and Industry

- PC 6050 The Rhetoric of STEM Prof

Additional Information

Information And Additional Notes

The English Master of Art program offers a limited number of assistantships on a competitive basis. Assistantship provides tuition waiver and a stipend of $10,400 paid over 9 months (Fall and Spring semester). The required responsibilities if you were granted the assistantship include 20hrs of work each week on campus in-person (observing, teaching, writing center tutoring, etc) and attendance of classes in-person (unless extenuating circumstances or ADA accommodations). Three references are required during the application process.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University. (Students who reach the number of credits required for their undergraduate degrees can also take additional courses for graduate credit before graduation, thus potentially accelerating their M.A. program even more.)

The minimum admission requirements for participating in the English Fast Track Program are:

- Enrollment as a TN Tech undergraduate English major with at least 90 hours of completed courses within their program of study;
- Completion of ENGL 3000;
- Overall GPA of 3.25 or better; GPA in 3000-level and above English coursework of 3.5 or better;
- Recommendation from the students undergraduate advisor;
- Course approval from course professor and graduate faculty advisor;
- In addition to the requirements for admission to the Fast Track BA/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

ENG-LITT - English, Literature Concentration, M.A.

Program Overview

Program Long Title

English, Literature Concentration, M.A.

College/School

Arts and Sciences

Department(s)

English

Catalog Full Description

The Master of Arts degree program in the Department of English prepares graduates for success in any further graduate and professional education that might require superior analytical and communication skills, as well as for careers outside the academic world wherever superior analytical and communication skills and knowledge of literary and cultural traditions are essential. Our English M.A. also provides superb grounding for seeking a Ph.D. in English by increasing students' knowledge of literary history and improving their skills in writing, literary analysis, and research. Graduates can also become effective high-school or college-level teachers by improving their knowledge of writing pedagogy and theory.

The Literature concentration engages traditional chronological periods of British and American literature alongside a wide variety of additional course offerings. Flexible plans of study provide opportunities to focus on conventional literary-historical areas as well as far-reaching critical and theoretical fields. Our courses help students pose and investigate problems in the advanced study of literature in English, and also provide a strong foundation for those students seeking to pursue a Ph.D. in literature or related fields. Students analyze texts, identify relevant contexts, and communicate complex ideas in a clear, artful manner. Additionally, by developing students' written and oral communication skills, research abilities, and analytical prowess, this concentration establishes core competencies required for work in many fields.

We offer both a thesis and portfolio option for the Literature M.A.

Thesis Option

- **Core Coursework:** 12 hours
- **Concentration Content Coursework:** 12 hours
- **Research and Thesis:** 6 hours
- **Total Degree Requirements:** 30 hours

Non-Thesis Option

- **Core Coursework:** 12 hours
- **Concentration Content Coursework:** 15 hours
- **Non-Thesis Requirement:** 3 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

1. An official transcript of undergraduate work reflecting an overall QPA of 2.5 or above
2. All applicants submit a statement of purpose. The statement of purpose should be no longer than two pages and include the following information:

- Description of the skills and qualities the candidate brings to the program
- Candidate's motivation for obtaining an MA in English

- Candidate's long-term goals in seeking an MA in English how the MA in English contributes to the achievement of those goals

*If the applicant is applying for a Teaching Assistantship, the candidate should use this statement to address the candidate's teaching interests and how the teaching assistantship contributes to the applicant's overall goals.

3. A writing sample for Literature concentration applicants should be an 8-page minimum, critical essay, appropriate for submission in an upper-division, undergraduate English class.

For students seeking a Graduate Teaching Assistantship (in-person status only): three letters of recommendation and the Graduate Assistantship Application form.

For full consideration, applicants for Fall admission must submit all application materials by January 10, and applicants for Spring admission must submit all materials by September 1. Applications will be accepted after these dates, but it is not guaranteed that we will have any assistantships left.

Only complete applications will be considered. Submit all application materials to the College of Graduate Studies in the application system.

Two types of student status are available, on-campus or hybrid. Learn more about the difference here.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Literature concentration provides both a Thesis and Non-Thesis option for our students. An oral defense is required for all concentrations. The program consists of core courses, concentration content courses, and a research component as summarized below:

Thesis Option

- Core Coursework: 12 hours
- Concentration Content Coursework: 12 hours
- Research and Thesis: 6 hours
- Total Degree Requirements: 30 hours

Non-Thesis Option

- Core Coursework: 12 hours
- Concentration Content Coursework: 15 hours
- Non-Thesis Requirement: 3 hours
- Total Degree Requirements: 30 hours

Core Requirements

Type
Completion Requirement

Core Courses (12 hours)

Complete ALL the following:

• ENGL6000 Intro-Graduate Studies Introduction to Graduate Studies

• ENGL6740 Publishing Theory and Practice Publishing Theory and Practice
• PC6060 Digital Design Digital Design
• One 6000-level ENGL literature course

Non-Thesis Degree Requirements

Type
Completion Requirement

Non-Thesis Option

Concentration Content is to consist of 15 credit hours of 6000-level ENGL literature courses. Students in the Literature Concentration can take no more than one (1) literature course at the 5000 level.

Students with assistantships take ENGL6010 Teaching Composition as part of the concentration courses.

Complete ALL of the following Courses:

- ENGL6890 - Directed Research

*When necessary, a committee of the instructor of record, the department chair, and the graduate advisor will determine how a course fits into the existing curriculum.

Non-Thesis Non-Course Requirement

Portfolio

The student will be responsible for compiling a three-part portfolio, to be designed in conjunction with and reviewed by their faculty committee. Students will orally defend their portfolios to their committee, and faculty committee members will then evaluate the questions and defense on a pass/fail basis. A "pass" for the defense requires a simple majority of the committee.

Portfolio Components

1. A Project Proposal/Prospectus that provides background on the projects, theoretical and/or literary influences on their proposed (re)development, a description of the specific projects included, and a timeline for completion. (No more than 8pp. single-spaced.).
2. Three projects from the list below, one of which must be research-based. These projects must be distinct from each other, and if the student wishes to create two different projects based on one work from a previous course, they must first obtain the permission of their chair.
   - Design a Course
   - Professional Documents
   - Literature Review
   - Theory Review
   - Publication History
   - Expand an Existing Research Paper
3. Critical reflection: This reflection integrates research from previous courses as well as additional sources in order to establish connections across the projects, to think through the methods used and/or skills emphasized, etc. Its goal is to get the student to think holistically about their portfolio and how the documents within have prepared them for future goals, projects, employment, etc.) (3-5pp. double-spaced.)

Thesis Degree Requirement

Type
Completion Requirement

Thesis Option

Concentration Content is to consist of 12 credit hours of 6000-level ENGL literature courses. Students in the Literature Concentration can take no more than one (1) literature course at the 5000 level.

Students with assistantships take ENGL6010 Teaching Composition as part of the concentration courses.

Student may choose to complete 6 hours of ENGL6990 OR complete ENGL6005, 3 hours, and ENGL6990, 3 hours

Course Repeatability Options

Type
Recommended

Previously Taken as an Undergraduate

Courses may be repeated one time by a graduate student who has previously taken it as an undergraduate, provided the content is different. Applicable courses include:

Complete ANY of the following Courses:

- ENGL5210 - 18th Century British Lit
- ENGL5250 - Post-Modern Literatures/Engl
- ENGL5310 - Early American Literature
- ENGL5320 - 19th Century American Lit
- ENGL5330 - Modern American Literature
- ENGL5610 - Novel
- ENGL5630 - Literary Criticism and Theory
- ENGL5650 - The Graphic Novel
- ENGL5712 - African American Literature
- ENGL5713 - Native American Literature
- ENGL5931 - Lit and the Environment
- ENGL5970 - Professional Comm II
- PC5850 - Internship
- PC5940 - Technical Editing
- PC5970 - Professional Comm II
- PC5990 - Bus/Grant Proposal Writing

Repeatable by Graduate Student

Courses may be repeated one time by a graduate student, provided the content is different. Applicable courses include:

Complete ANY of the following Courses:

- ENGL6020 - Seminar in Early British Lit
- ENGL6080 - Sem in British Lit/1500-1650
- ENGL6150 - Sem in British Lit/1650-1800
- ENGL6400 - Special Topics
- ENGL6520 - Sem in Early American Lit
- ENGL6590 - Sem in 19th Cent American Lit
- ENGL6640 - Sem/20th & 21st Cent Amer Lit
- PC6030 - Core Iss/Rsrch-Prof Tech Comm
- PC6040 - Sp Top: PTC and Industry
- PC6050 - The Rhetoric of STEM Prof

Additional Information

Information And Additional Notes
The English Master of Arts program offers a limited number of assistantships on a competitive basis. Assistantship provides tuition waiver and a stipend of $10,400 paid over 9 months (Fall and Spring semester). The required responsibilities if you were granted the assistantship include 20hrs of work each week on campus in-person (observing, teaching, writing center tutoring, etc.) and attendance of classes in-person (unless extenuating circumstances or ADA accommodations). Three references are required during the application process.

Undergraduate Fast Track Program

Undergraduate Fast Track Program
The Fast Track program is designed to enable undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University. (Students who reach the number of credits required for their undergraduate degrees can also take additional courses for graduate credit before graduation, thus potentially accelerating their M.A. program even more.)

The minimum admission requirements for participating in the English Fast Track Program are:

- Enrollment as a TN Tech undergraduate English major with at least 90 hours of completed courses within their program of study;
- Completion of ENGL 3000;
- Overall GPA of 3.25 or better; GPA in 3000-level and above English coursework of 3.5 or better;
- Recommendation from the students undergraduate advisor;
- Course approval from course professor and graduate faculty advisor;
- In addition to the requirements for admission to the Fast Track BA/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

ENG-PTC - English, Professional and Technical Communication Concentration, M.A.

Program Overview

Program Long Title
English, Professional and Technical Communication Concentration, M.A.

College/School
Arts and Sciences

Department(s)
English

Catalog Full Description
The Master of Arts degree program in the Department of English prepares graduates for success in any further graduate and professional education that might require superior analytical and communication skills, as well as for careers outside the academic world wherever superior analytical and communication skills and knowledge of literary and cultural traditions are essential. Our English M.A. also provides superb grounding for seeking a Ph.D. in English by increasing students' knowledge of literary history and improving their skills in writing, literary analysis, and research. Graduates can also become effective high-school or college-level teachers by improving their knowledge of writing pedagogy and theory.

The Professional and Technical Communication (PTC) concentration provides graduate students with a strong theoretical background to pursue research in workplace writing and communication, as well as practical expertise in analyzing, creating, and revising genres in technical writing fields. The concentration provides additional education and training for students who are preparing for careers within the field of PTC, including the fields of Engineering, Business, Nursing, and Law that require facility with technical and scientific communication skills in business environments. Graduate students whose primary major is in the sciences would also benefit from the complementary communication and research strategies learned. Students seeking to pursue a Ph.D. will find this M.A. concentration to be a useful foundation.

We offer the portfolio option for the PTC M.A.

Non-Thesis Option

• Core Course Requirements: 12 hours
• Concentration Course Requirements: 12 hours
• Non-Thesis Research Requirement: 6 hours
• Total Degree Requirements: 30 hours

Admission Requirements

Admission Requirements

1. An official transcript of undergraduate work reflecting an overall QPA of 2.5 or above
2. All applicants submit a statement of purpose. The statement of purpose should be no longer than two pages and include the following information:

- Description of the skills and qualities the candidate brings to the program
- Candidate’s motivation for obtaining an MA in English
- Candidate’s long-term goals in seeking an MA in English how the MA in English contributes to the achievement of those goals

*If the applicant is applying for a Teaching Assistantship, the candidate should use this statement to address the candidate’s teaching interests and how the teaching assistantship contributes to the applicant’s overall goals.

3. A writing sample for Literature and PTC concentration applicants (should be an 8-page minimum, critical essay, appropriate for submission in an upper-division, undergraduate English class)

For students seeking a Graduate Teaching Assistantship (in-person status only): three letters of recommendation and the Graduate Assistantship Application form.

For full consideration, applicants for Fall admission must submit all application materials by January 10, and applicants for Spring admission must submit all materials by September 1. Applications will be accepted after these dates, but it is not guaranteed that we will have any assistantships left.

Only complete applications will be considered. Submit all application materials to the College of Graduate Studies in the application system.

Two types of student status are available, on-campus or hybrid. Learn more about the difference here.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Professional and Technical Communication concentration is comprised of three components: core courses, concentration courses, and a research component. The program is available only as Non-Thesis (30 hours).

- Core Course Requirements: 12 hours
- Concentration Course Requirements: 12 hours
- Non-Thesis Research Requirement: 6 hours
- Total Degree Requirements: 30 hours

Course Requirements

Type
Completion Requirement

Core Courses (12 hours)

Complete all of the following:

- PC6060 Digital Design Digital Design
- ENGL6000 Intro-Graduate Studies Intro-Graduate Studies
- ENGL6740 Publishing Theory and Practice Publishing Theory and Practice
- One 6000-level Literature course

Concentration Content Courses (12 hours)

Complete ALL of the following Courses:

- PC6030 - Core Iss/Rsrch-Prof Tech Comm
- PC6040 - Sp Top: PTC and Industry
- PC6050 - The Rhetoric of STEM Prof
- ENGL6010 Teaching Composition will be taken if on assistantship; otherwise, one graduate-level elective, 3 credit hours, to be selected by student and advisor. (PC/ ENGL5XXX-6XXX)

*PC6040 and PC6050 may be taken twice, provided the content is different.

For students who have taken any of the PC courses at the 4000-level, two 5000-level ENGL courses from the list below may be substituted for two 5000-level PC courses listed.

- ENGL5411 Writing in the Professions Writing in the Professions
- ENGL5421 Forms of Arg-Pers/Theo-Prac Forms of Arg-Pers/Theo-Prac
- ENGL5511 Intro/Descriptive Linguistics Intro/Descriptive Linguistics
- ENGL5521 History-English Language History-English Language
- ENGL5531 Grammar and Language Grammar and Language
- ENGL5541 Topics in Linguistics/Language Topics in Linguistics/Language
- ENGL5551 Intro-Rhetoric/Theo-Prac Intro-Rhetoric/ Theo-Prac
- ENGL5561 American English American English

Non-Thesis Course Requirements (6 hours):

Complete the following:

- ENGL6890 Directed Research Directed Research
- PC6850 Internship in PTC Internship

Additional Comments:
In addition to the specific course requirements for their respective concentrations, an oral defense of their portfolio is required for all concentrations.

Portfolio

Type
Completion Requirement

Additional Comments:
The student will be responsible for compiling a four-part portfolio, to be designed in conjunction with and reviewed by their faculty committee. Students will orally defend their portfolios to their committee, and faculty committee members will then evaluate the questions and defense on a pass/fail basis. A "pass" for the defense requires a simple majority of the committee.

Portfolio Components

1. Project Proposal/Prospectus which provides background on the projects, theoretical influences [drawn from courses] on their proposed redevelopment, a description of the specific projects included, and a timeline for completion.

2. Two digital artifacts from other graduate courses that have been redeveloped and expanded (Examples include but are not limited to podcasts, videos, social media creation and curation accounts, websites, technical reports, and grants.)

3. A Client Project (This would be completed while a student is enrolled in a graduate-level internship. Because the portfolio option requires an additional course, that course would be PC 5850 - Internship.

4. A Critical Reflection (This reflection integrates sources/theoretical background from previous courses as well as additional sources.)

NOTE: While students within the Professional and Technical Communication concentration of the English M.A. will have opportunities for teaching assistantships, graduate students will not teach PC 2500 - Communicating in the Professions.

Additional Information

Information And Additional Notes

The English Master of Arts program offers a limited number of assistantships on a competitive basis. Assistantship provides tuition waiver and a stipend of $10,400 paid over 9 months (Fall and Spring semester). The required responsibilities if you were granted the assistantship include 20hrs of work each week on campus in-person (observing, teaching, writing center tutoring, etc.) and attendance of classes in-person (unless extenuating circumstances or ADA accommodations). Three references are required during the application process.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University. (Students who reach the number of credits required for their undergraduate degrees can also take additional courses for graduate credit before graduation, thus potentially accelerating their M.A. program even more.)

The minimum admission requirements for participating in the English Fast Track Program are:

- Enrollment as a TN Tech undergraduate English major with at least 90 hours of completed courses within their program of study;
- Completion of ENGL 3000;
- Overall GPA of 3.25 or better; GPA in 3000-level and above English coursework of 3.5 or better;
- Recommendation from the students undergraduate advisor;
- Course approval from course professor and graduate faculty advisor;
- In addition to the requirements for admission to the Fast Track BA/ MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

ENGR-DCE - Engineering, Civil Engineering Concentration, Ph.D.

Program Overview

Program Long Title
Engineering, Civil Engineering Concentration, Ph.D.

College/School
Engineering

Department(s)
Civil and Environmental Engr

Catalog Full Description
The Department of Civil and Environmental Engineering offers advanced studies leading to the Master of Science degree in Civil Engineering and the Doctor of Philosophy degree in Engineering with specialization in Civil Engineering. The goals of the Ph.D. program are listed under the College of Engineering and administered by the Associate Dean of Engineering for Graduate Studies and Research. The goal of the MS program is to provide the strong academic programs necessary to prepare students to become educated members of society who can join and make significant contributions to the civil engineering profession.

This is accomplished by allowing MS graduate students to specialize in specific engineering topics through advanced and in-depth studies in these topics; by providing guidance to students in fundamental and applied research; by helping them to develop powers of analysis, synthesis and critical thinking; and by preparing outstanding graduate students to continue academic and research careers through doctoral-level studies.

The department offers the Master of Science Degree in Civil Engineering with concentrations in environmental engineering, structural engineering, and transportation engineering. The departmental faculty have expertise and conduct research in the following areas: environmental and water resources engineering; structural engineering, transportation and paving materials; engineering mechanics; and computational mechanics. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis research interests. The student’s advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student’s work towards the degree.

Many departmental faculty actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Admission Requirements

Admission Requirements
The basic admission standards for the Ph.D. program are the same as for the Master of Science in Engineering (see requirement list below), in addition, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale.

Though the general requirement for admission to the Ph.D. program is a master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate engineering program undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum, but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing at either the MS or Ph.D. level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

MS Engineering Program Admission Requirements

An applicant for admission to any of the MS programs offered by the departments of the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent. Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE® General Test (GRE) scores with Quantitative greater than or equal to 150 (50%); Verbal greater than or equal to 147 (33%); Analytical Writing greater than or equal to 3.5 (33%). Students with BS degrees in related fields from Tennessee Tech are not required to take the GRE.
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000-level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/ FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a "B" grade or better. Transfer credit GPA will not apply towards the program's GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student's graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Students Admitted with a Master's Degree

Type
Completion Requirement

Program of Study is defined by the committee

48 hours required, comprised of:

- 18 credit hours (minimum) of coursework beyond the master's degree
- 6 credit hours of concentration coursework
- 24 hours research and dissertation

Direct Admit from BS to PhD

Type
Completion Requirement

Program of Study defined by committee

72 credit hours required and comprised of:

- 42 hours of coursework (maximum 9 hours at the 5000 level)
- 6 hours of coursework or research experience
- 24 hours of research and dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENGR-DCHE - Engineering, Chemical Engineering Concentration, Ph.D.

Program Overview

Program Long Title

Engineering, Chemical Engineering Concentration, Ph.D.

College/School

Engineering

Department(s)

Chemical Engineering

Catalog Full Description

The faculty of the Department of Chemical Engineering actively participates in the Doctor of Philosophy program in Engineering. Admission to the doctoral program is open to individuals with outstanding academic records and potential for original research. The departmental faculty and graduate students work cooperatively with the three State funded Centers of Excellence: two within the College of Engineering and one under the Office of Research & Economic Development.

Admission Requirements

Admission Requirements

The basic admission standards for the Ph.D. program are the same as for the Master of Science in Engineering (see requirement list below), in addition, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale.

Though the general requirement for admission to the Ph.D. program is a master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate engineering program undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum, but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing at either the MS or Ph.D. level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

MS Engineering Program Admission Requirements

An applicant for admission to any of the MS programs offered by the departments of the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent. Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE® General Test (GRE) scores with Quantitative greater than or equal to 150 (50%); Verbal greater than or equal to 147 (33%); Analytical Writing greater than or equal to 3.5 (33%). Students with BS degrees in related fields from Tennessee Tech are not required to take the GRE.

- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000-level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/ FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a "B" grade or better. Transfer credit GPA will not apply towards the program's GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student's graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An

extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Students Admitted with a Master's Degree

Type
Completion Requirement

Program of Study is defined by the committee

48 hours required, comprised of:

- 18 credit hours (minimum) of coursework beyond the master's degree
- 6 credit hours of concentration coursework
- 24 hours research and dissertation

Direct Admit from BS to PhD

Type
Completion Requirement

Program of Study is defined by committee

72 credit hours required and comprised of:

- 42 hours of coursework (maximum 9 hours at the 5000 level)
- 6 hours of coursework or research experience
- 24 hours of research and dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

ENGR-DME - Engineering, Mechanical Engineering Concentration, Ph.D.

Program Overview

Program Long Title
Engineering, Mechanical Engineering Concentration, Ph.D.

College/School
Engineering

Department(s)
Mechanical & Nuclear Engr.

Catalog Full Description
The Mechanical and Nuclear Engineering Department offers courses and research projects leading to the Master of Science Degree in Mechanical Engineering and enthusiastically participates in the Doctor of Philosophy Degree offered in the College for those doctoral students focusing their work in the mechanical engineering area. The MS program is administered by the Department and the Ph.D. program is administered by the Associate Dean of Engineering for Graduate Studies and Research. Both degrees are research-oriented.

Participation in graduate education is consistent with the Mechanical and Nuclear Engineering Department’s goals and objectives which are:

- to provide quality instructional programs and research experiences in mechanical engineering subjects that are at a level of sophistication compatible with professional norms;
- to maintain a competent, dynamic faculty, expert in the various facets of mechanical engineering that strive to motivate the student and that practices effective educational techniques;
- and to provide instructional and research facilities, equipped with up-to-date apparatus, which are conducive to the education of mechanical engineering graduate students.

A graduate student may customize his/her graduate courses in one of several areas subject to the approval of his/her graduate advisory committee. Areas of specialty include energy systems (including alternate and renewable), robotics and intelligent systems, solid mechanics and materials, thermal fluid science, vehicle systems (including hybrid and autonomous), vibrations/acoustics/ dynamics and control, and advanced manufacturing. Graduate course offerings are offered each semester to meet the needs of the graduate students. Graduate students may carry out their research for their thesis/dissertation in any one of the aforementioned areas under the supervision of a faculty member, having expertise in that area, who is also a member of the graduate faculty. Individual programs of study are developed for each student depending on his/her career goals and thesis research interest. Thesis, non-thesis and on-line non-thesis programs are offered to meet the needs of our students.

Faculty advisors assist graduate students in the development of their individual programs of study depending on their career goals and thesis/dissertation interests. The advisor chairs the student’s advisory committee. The student’s advisory committee guides the student through degree progression and is responsible for monitoring the student’s work to complete the degree requirement.

The research and graduate education within the College are enhanced by four Centers of Excellence: the Center for Energy Systems Research (CESR); the Center for Manufacturing Research (CMR); Cybersecurity Education, Research and Outreach Center (CEROC); and the Center for the Management, Utilization, and Protection of Water Resources (WC). The Mechanical Engineering Department is highly involved with the first two. Faculty actively interact with the Power and Manufacturing Centers in seeking external funding for research. The Centers complement the faculty efforts by supporting graduate students and via administrative support. The interaction involves a strengthening through sharing of resources and personnel.

Admission Requirements

Admission Requirements

The basic admission standards for the Ph.D. program are the same as for the Master of Science in Engineering (see requirement list below), in addition, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale.

Though the general requirement for admission to the Ph.D. program is a master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate engineering program undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum, but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing at either the MS or Ph.D. level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

MS Engineering Program Admission Requirements

An applicant for admission to any of the MS programs offered by the departments of the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent. Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE® General Test (GRE) scores with Quantitative greater than or equal to 150 (50%); Verbal greater than or equal to 147 (33%); Analytical Writing greater than or equal to 3.5 (33%). Students with BS degrees in related fields from Tennessee Tech are not required to take the GRE.
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000-level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/ FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate

committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a “B” grade or better. Transfer credit GPA will not apply towards the program’s GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student’s graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Student Admitted with a Master's Degree

Type
Completion Requirement

Program of Study is defined by the committee

48 hours required, comprised of:

- 18 credit hours (minimum) of coursework beyond the master's degree
- 6 credit hours of concentration coursework
- 24 hours research and dissertation

Direct Admit from BS to PhD

Type
Completion Requirement

Program of Study defined by committe

72 credit hours required and comprised of:

- 42 hours of coursework (maximum 9 hours at the 5000 level)
- 6 hours of coursework or research experience
- 24 hours of research and dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENGR-ECE - Engineering, Electrical and Computer Engineering Concentration, Ph.D.

Program Overview

Program Long Title
Engineering, Electrical and Computer Engineering Concentration, Ph.D.

College/School
Engineering

Department(s)
Electrical and Computer Engr

Catalog Full Description
The Department of Electrical and Computer Engineering offers advanced studies leading to the Master of Science degree in Electrical and Computer Engineering and the Doctor of Philosophy degree in Engineering with specialization in Electrical and Computer Engineering. The Ph.D. program is administered by the Associate Dean of Research and Innovation. The goals and the admission and degree requirements for the Ph.D. program are listed under the College of Engineering.

The departmental faculty have expertise in the following areas of electrical engineering: circuits and signal processing; control, robotics and instrumentation, digital systems, computers, and VLSI circuit design; nuclear engineering; physical phenomenon and lasers; electric power; and telecommunications, wireless communications and networking. Graduate students may carry out their research for their thesis/dissertation in any one (1) of the above areas under the supervision of a faculty member having expertise in that area. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and thesis/dissertation research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Many departmental faculty members actively participate in research related to the three Centers of Excellence operated within the University: two within the College of Engineering and one under the Office of Research & Economic Development. The resources and facilities of the Centers greatly enhance the graduate program of the Department.

Admission Requirements

Admission Requirements
The basic admission standards for the Ph.D. program are the same as for the Master of Science in Engineering (see requirement list below), in addition, an applicant is expected to have completed an MS degree in an academic area appropriate to the proposed area of study and to have earned an MS GPA of at least 3.5 on a 4.0 scale.

Though the general requirement for admission to the Ph.D. program is a master's degree in an appropriate discipline, students with a bachelor's degree may be admitted to the Ph.D. program directly on exceptional basis, provided the applicant has a record of excellent academic performance in an appropriate engineering program undergraduate program. The applicant's test scores, personal recommendations, and relevant work experience must indicate a high potential for success in doctoral studies and research. In addition, factors such as appropriateness of the applicant's research objectives to the research interests of the program faculty, availability of faculty to supervise the applicant's research, and prior research accomplishments of the applicant will also influence the admission decision.

Fulfilling the minimum requirement does not guarantee admission; an applicant who does not meet the above minimum, but appears to have reasonable potential for success as a Ph.D. student, may be admitted to provisional standing. His/her status may be changed to full standing after satisfying requirements specified by the Associate Dean of Engineering for Graduate Studies and Research, in consultation with the appropriate departmental chairperson, at the time of admission.

If admitted in provisional standing at either the MS or Ph.D. level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

MS Engineering Program Admission Requirements

An applicant for admission to any of the MS programs offered by the departments of the College of Engineering is expected to have earned a BS degree from an approved program, or its equivalent. Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE® General Test (GRE) scores with Quantitative greater than or equal to 150 (50%); Verbal greater than or equal to 147 (33%); Analytical Writing greater than or equal to 3.5 (33%). Students with BS degrees in related fields from Tennessee Tech are not required to take the GRE.
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

To receive a Ph.D. degree with specialization in ECE, the student shall complete all the requirements for the Ph.D. specified under the College of Engineering section of the catalog. Additionally, the program of study for Ph.D. students majoring in ECE shall include ECE 6910 -Introduction to Graduate Research during the first semester of study except when the student has already taken ECE 6910 as a part of the MS program or when the student has prior research experience as demonstrated by the successful completion of a master's thesis; and no more than nine hours of independent/directed study courses such as ECE 6980/ECE 7980. The ECE departmental chairperson will assist the Associate Dean in deciding the appropriateness of each program of study.

The student's advisory committee must be chaired or co-chaired by an ECE faculty member, and additionally, the committee must include at least two members of the ECE faculty, a member from the engineering faculty outside the ECE Department and one member from the Mathematics Department. The Associate Dean for Research and Innovation is an ex-officio nonvoting member of every Ph.D. student's advisory committee.

Doctor of Philosophy Degree Requirements
The Ph.D. is a research degree. The minimum requirements for a Ph.D. degree in the College of Engineering stated below are the same for all departments. Each department may include additional degree requirements for students pursuing a concentration from that department.

ADMISSION TYPE	CREDIT HOUR REQUIREMENT	DEGREE REQUIREMENT
Admitted with a Master's Degree	48 Credit Hours	• 18 credit hours of approved coursework (minimum), no 5000 level courses • 6 additional credit hours of coursework or research hours • 24 credit hours of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a Bachelor's Degree (direct-admit PhD)	72 Credit Hours	• 42 credit hours of coursework with a maximum of 9 credit hours at the 5000-level • 6 additional credit hours of coursework or research • 24 credit hours (minimum) of doctoral research and dissertation (9 credit hours per semester limit)
Admitted with a bachelor's degree (direct-admit PhD) and earning a non-thesis MS en route	72 Credit Hours	• All conditions as defined above for direct-admit PhD • 9 hours of MS credit may be applied to the PhD (excludes transfers/ FastTrack credits) If the non-thesis MS requires a 3-credit hour project course, these 3 hours (if included in the nine hours to be shared) may be used towards PhD research and dissertation hours or as approved by the committee/major department.

Additional Requirements (all admission types)

1. All requirements, including the dissertation, must be completed within a period of eight (8) consecutive years.
2. Maintenance of a minimum quality point average of 3.0 and adherence to the general regulations of the College of Graduate Studies are expected. All students in the program must follow a plan of study and research developed in conjunction with an advisory committee, satisfactorily complete a comprehensive examination, achieve candidacy, and satisfactorily defend their dissertation.
3. Students who have already earned a graduate-level degree before entering the Engineering PhD program may be eligible to transfer in up to 9 credits that are relevant to the program pending approval of the student's graduate committee, the major department, and the college. Transfer requests for appropriate graduate-level credits not associated with an awarded graduate degree may be eligible at the discretion of the student's graduate committee and the department. Transfer credits must adhere to the other stated requirements of the program and must be a "B" grade or better. Transfer credit GPA will not apply towards the program's GPA calculations. Requests must be submitted via the appropriate fully-signed transfer form after the student's graduate committee has been officially established.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Degree Program- Additional Requirements

A student admitted with a bachelor's degree on an exceptional basis must successfully complete a qualifying examination based primarily on undergraduate materials before the end of the second semester of enrollment. Students with a Bachelor of Science (B.S.) degree from ABET-accredited programs are exempted from this examination. Other students without such a degree, or M.S. students without an ABET-accredited B.S. degree, switching to a direct Ph.D. will have to take a qualifying exam through a formal process established by the department. The process should include, at a minimum, an examination of the student's fundamental knowledge managed by the Graduate Committee of the department.

Based on the student's performance on the qualifying examination, the student may be (i) permitted to continue in the doctoral program, or (ii) advised to transfer to an M.S. degree program in an appropriate discipline in the college, or (iii) recommended for termination from the graduate program of the college.

If permitted to continue in the doctoral program, the student, as described elsewhere in the catalog, will select a research advisor, form an advisory committee, and submit a program of study that satisfies program requirements.

Students Admitted Directly from the Bachelor's Degree into the Ph.D. Program Earning a Non-thesis M.S. en route - Additional Requirements

In addition to the requirements stated above, the student is required to submit an application to graduate for the applicable term in order to have the en route MS degree conferred.

Limitation on Graduate Assistantships

It is expected that a full-time, post master's Ph.D. Engineering student should be able to achieve candidacy within the first three (3) calendar years after enrollment, and a direct admit Ph.D. Engineering student after four (4) calendar years. If candidacy is not achieved within the aforementioned periods, a student must request and receive approval for an extension of assistantship following the College of Engineering's established procedure. An extension may be granted by the Associate Dean of Engineering for Research and Innovation. This limitation is regardless of student funding or the source of support for the student.

Admitted with Bachelor's Degree

Type
Completion Requirement

Admitted with Master's Degree

48 hours required, comprised of:

- 18 credit hours (minimum) of coursework beyond the master's degree
- 6 credit hours of concentration coursework
- 24 hours research and dissertation

Direct admit from BS to PhD

Type
Completion Requirement

Program of Study defined by committee

72 credit hours required and comprised of:

- 42 hours of coursework (maximum 9 hours at the 5000 level)
- 6 hours of coursework or research experience
- 24 hours of research and dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENV-AGRI - Environmental Sciences, Agriculture Concentration, Ph.D.

Program Overview

Program Long Title

Environmental Sciences, Agriculture Concentration, Ph.D.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Agriculture has many connections with Environmental Sciences, including study areas of sustainable and organic farming, applications of technology and engineering, and effects of pesticides and fertilizers on plants, animals, and ecosystems, to name a few. Tennessee Tech has the Shipley Farm and other operations that provide a venue for dissertation research projects in Environmental Agriculture and the faculty in the School of Agriculture offer coursework and advise graduate students in this area.

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

Admission Requirements

Admission Requirements

Applicants for admission to the doctoral program in Environmental Sciences must have:

- a bachelor's or master's degree in science, mathematics, engineering, or environmental science;
- a grade point average of 3.0 or above on a 4.0 scale;
- international students must have a score of 3.5 or above on the TOEFL;

Application materials may be obtained from the College of Graduate Studies.

Applicants seeking admission with Full Standing in the program must satisfy the departmental requirements.

Applicants who do not fully meet the following requirements may be admitted in Provisional Standing on the basis of a favorable recommendation to the Associate Dean of Graduate Studies by the appropriate departmental chairperson and the Director of the Environmental Sciences doctoral program. If admitted in Provisional Standing, the student must remove all deficiencies and apply for reclassification to Full Standing prior to the completion of 15 hours of graduate work.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The general requirements for the Ph.D. degree in Environmental Sciences are:

- Concentration Core Coursework: 13 hours
- Research and Dissertation Requirement: 18 hours

- Advisor Guided Concentration Coursework: 30 hours
- Total Degree Requirement: 61 hours
- A minimum of 61 semester credits of coursework and doctoral research and dissertation as follows:
    - A minimum of 43 semester credits of coursework beyond the bachelor's degree:
        - This must include 13 semester credits of core coursework
        - This must include 30 hours of concentration coursework
        - Must include at least 12 semester credits at the 7000 level
    - A minimum of 18 semester credits of research and dissertation, resulting in the satisfactory completion of a doctoral dissertation.
- Residence of four (4) semesters beyond the bachelor's level, with at least two (2) semesters in continuous residence.
- Completion of all requirements for the degree, including the dissertation within a period of eight(8) consecutive years.
- Maintenance of a general grade point average of 3.0.
- Satisfactory completion of a comprehensive examination.
- Satisfactory presentation and defense of a doctoral dissertation.

In addition, a student must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Degree Requirements

Type
Completion Requirement

Concentration Core Coursework (13 Credit Hours)

Complete ALL of the following Courses:
- EVSB6010 - Environmental Biology
- EVSC6010 - Environmental Chemistry
- EVSG6010 - Environmental Geology
- EVSS6010 - Environmental Social Policy
- EVS7910 - Environmental Science Seminar

Research and Dissertation Requirement (18 hours)

Complete ALL of the following Courses:
- EVSA7990 - Research and Dissertation

Advisor Guided Concentration Coursework (30 hours)

The advisor and/or committee may define 30 hours from any EVSA, EVSB, EVSC, EVSI, EVSS, EVS, BIOL, or CHEM 6000-7000 level courses.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Guidelines for Graduate Committee Composition

The organization and appointment of advisory committees to supervise graduate study for the degree of Doctor of Philosophy in Environmental Sciences shall be the same, generally, as in the master's program, except that the advisory committee shall consist of at least five (5) members of the Graduate Faculty, plus the Director of Environmental Sciences Ph.D. program who serves as an ex officio, nonvoting member. For students concentrating in Agriculture, Biology, Chemistry, and Geosciences, three (3) members of the advisory committee shall be from the student's area of concentration, at least one (1) member shall be from a separate department of the environmental science core outside the student's area of concentration, and one (1) member may be from any department within the university. For the Integrated Research concentration, at least two (2) members shall be from departments participating in the environmental science core, one (1) member shall be from any STEM department, and two (2) members may be from any department within the university. For all concentrations, no more than three (3) committee members may be from the same department. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Guidelines for the Comprehensive Examination

Prerequisites. Before requesting that his or her major professor schedule a Comprehensive Examination, a student must:

- have achieved Full Standing in the program
- completed approximately 80% of the course work in his/her Program of Study

Descriptions

The test will consist of written and/or oral portions. The student's advisory portion will consist of four (4) sections. Total time for each section should not exceed eight (8) hours. Three (3) sections will contain material from the student's area of concentration and one (1) section will integrate material from the Environmental Sciences Core Curriculum. It is the graduate advisory committee chair's responsibility to ensure that all committee members will be involved in the administration and evaluation of the written and oral exams, per University Policy 282.

If an oral exam is to be included as part of the comprehensive exam it will be administered by the student's advisory committee within three (3) weeks of the successful completion of the written portion of the exam. A question will be included in the oral exam that tests the student's understanding of the interdisciplinary nature of Environmental Sciences.

If an oral exam is included as part of the comprehensive exam, both portions of the Comprehensive Examination will be completed during one (1) academic semester.

Results

Four-fifths of the voting members of the committee must agree that the student has successfully completed the comprehensive exam.

The student will be given one (1) additional opportunity to pass each portion of the Comprehensive Examination. Failure to pass either portion on the second try will result in the student's dismissal from the Ph.D. program.

A written evaluation of the student's performance on the Comprehensive Examination will be prepared by the student's advisory committee and kept on file in the office of the Director of the Environmental Sciences Ph.D. program.

Time Constraints

Successful completion of the Comprehensive Examination must be achieved in a timely fashion. The complete Comprehensive Examination must be scheduled and taken within a year following the completion of 80% of the course work in the

student's Program of Study, including successful completion of all core courses. It shall be the student's responsibility, in consultation with his/her advisor, to schedule this examination at a date agreeable to the whole examining committee. The committee shall be given at least two (2) months advance notice of the Examination date in order to make preparations. Any second attempts to pass portions of the Comprehensive Examination must be scheduled in the subsequent (Fall/Spring) semester. Failure to follow these procedures shall result in the student's dismissal from the program. Any appeal by the student for exceptions to this policy shall be made in writing and submitted to the Executive Committee of the Ph.D. program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENV-BIOL - Environmental Sciences, Biology Concentration, Ph.D.

Program Overview

Program Long Title

Environmental Sciences, Biology Concentration, Ph.D.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

The Doctor of Philosophy degree program in Environmental Sciences offers concentrations in biology, chemistry, agriculture, geosciences, and integrated research but emphasizes the solution of complex environmental problems using an interdisciplinary approach. Course work is required in biology, chemistry, geology, agriculture, and sociology. This interdisciplinary approach insures that students become aware of a wide range of environmental concerns and that their research includes a breadth of environmental understanding beyond the boundaries of a particular discipline. The goal of the program is to prepare students for careers in research, management, government service, teaching, and other areas where they can make productive contributions to the solution of environmental problems.

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

Admission Requirements

Admission Requirements

Applicants for admission to the doctoral program in Environmental Sciences must have:

- a bachelor's or master's degree in science, mathematics, engineering, or environmental science;
- a grade point average of 3.0 or above on a 4.0 scale;
- international students must have a score of 3.5 or above on the TOEFL;

Applications are completed and submitted online.

Applicants seeking admission with Full Standing in the program must satisfy the departmental requirements.

Applicants who do not fully meet the following requirements may be admitted in Provisional Standing on the basis of a favorable recommendation to the Associate Dean of Graduate Studies by the appropriate departmental chairperson and the Director of the Environmental Sciences doctoral program. If admitted in Provisional Standing, the student must remove all deficiencies and apply for reclassification to Full Standing prior to the completion of 15 hours of graduate work.

EVS Biology Concentration Additional Admissions Requirement

- applicants must have a bachelor’s or master’s degree in a biological science
- a grade point average of 3.5 or above for the highest degree earned

- In addition, a graduate faculty member must have agreed to direct the student's doctoral program and financial support must have been identified for a stipend and for research needs.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

- A minimum of 61 semester credits of course work and doctoral research and dissertation as follows:
  - A minimum of 43 semester credits of course work beyond the bachelor's degree:
    - This must include 13 semester credits of core coursework
    - This must include 30 hours of concentration coursework
    - Must include at least 12 semester credits at the 7000 level
  - A minimum of 18 semester credits of research and dissertation, resulting in the satisfactory completion of a doctoral dissertation.
- Residence of four (4) semesters beyond the bachelor's level, with at least two (2) semesters in continuous residence.
- Completion of all requirements for the degree, including the dissertation within a period of eight (8) consecutive years.
- Maintenance of a general grade point average of 3.0.
- Satisfactory completion of a comprehensive examination.
- Satisfactory presentation and defense of a doctoral dissertation.

In addition, a student must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Degree Requirements

Type
Completion Requirement

Concentration Core Coursework (13 Credit Hours)

Complete ALL of the following Courses:
- EVSA6010 - Environmental Agriculture
- EVSC6010 - Environmental Chemistry
- EVSG6010 - Environmental Geology
- EVSS6010 - Environmental Social Policy
- EVS7910 - Environmental Science Seminar

Research and Dissertation Requirement (18 hours)

Complete ALL of the following Courses:
- EVSB7990 - Research & Dissertation

Advisor Guided Concentration Coursework (30 hours)

The advisor and/or committee may define 30 hours from any EVSA, EVSB, EVSC, EVSI, EVSS, EVS, BIOL, or CHEM 6000-7000 level courses.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Guidelines for Graduate Committee Composition

The organization and appointment of advisory committees to supervise graduate study for the degree of Doctor of Philosophy in Environmental Sciences shall be the same, generally, as in the master's program, except that the advisory committee shall consist of at least five (5) members of the Graduate Faculty, plus the Director of Environmental Sciences Ph.D. program who serves as an ex officio, nonvoting member. For students concentrating in Agriculture, Biology, Chemistry, and Geosciences, three (3) members of the advisory committee shall be from the student's area of concentration, at least one (1) member shall be from a separate department of the environmental science core outside the student's area of concentration, and one (1) member may be from any department within the university. For the Integrated Research concentration, at least two (2) members shall be from departments participating in the environmental science core, one (1) member shall be from any STEM department, and two (2) members may be from any department within the university. For all concentrations, no more than three (3) committee members may be from the same department. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Guidelines for the Comprehensive Examination

Prerequisites. Before requesting that his or her major professor schedule a Comprehensive Examination, a student must:

- have achieved Full Standing in the program
- completed approximately 80% of the course work in his/her Program of Study

Descriptions

The test will consist of written and/or oral portions. The student's advisory portion will consist of four (4) sections. Total time for each section should not exceed eight (8) hours. Three (3) sections will contain material from the student's area of concentration and one (1) section will integrate material from the Environmental Sciences Core Curriculum. It is the graduate advisory committee chair's responsibility to ensure that all committee members will be involved in the administration and evaluation of the written and oral exams, per University Policy 282.

If an oral exam is to be included as part of the comprehensive exam it will be administered by the students advisory committee within three (3) weeks of the successful completion of the written portion of the exam. A question will be included in the oral exam that tests the students understanding of the interdisciplinary nature of Environmental Sciences.

If an oral exam is included as part of the comprehensive exam, both portions of the Comprehensive Examination will be completed during one (1) academic semester.

Results

Four-fifths of the voting members of the committee must agree that the student has successfully completed the comprehensive exam.

The student will be given one (1) additional opportunity to pass each portion of the Comprehensive Examination. Failure to pass either portion on the second try will result in the student's dismissal from the Ph.D. program.

A written evaluation of the student's performance on the Comprehensive Examination will be prepared by the students advisory committee and kept on file in the office of the Director of the Environmental Sciences Ph.D. program.

Time Constraints

Successful completion of the Comprehensive Examination must be achieved in a timely fashion. The complete Comprehensive Examination must be scheduled and taken within a year following the completion of 80% of the course work in the students Program of Study, including successful completion of all core courses. It shall be the student's responsibility, in consultation with his/her advisor, to schedule this examination at a date agreeable to the whole examining committee. The committee shall be given at least two (2) months advance notice of the Examination date in order to make preparations. Any second attempts to pass portions of the Comprehensive Examination must be scheduled in the subsequent (Fall/Spring) semester. Failure to follow these procedures shall result in the student's dismissal from the program. Any appeal by the student for exceptions to this policy shall be made in writing and submitted to the Executive Committee of the Ph.D. program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENV-CHEM - Environmental Sciences, Chemistry Concentration, Ph.D.

Program Overview

Program Long Title

Environmental Sciences, Chemistry Concentration, Ph.D.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

The Doctor of Philosophy degree program in Environmental Sciences offers concentrations in biology, chemistry, agriculture, geosciences, and integrated research but emphasizes the solution of complex environmental problems using an interdisciplinary approach. Course work is required in biology, chemistry, geology, agriculture, and sociology. This interdisciplinary approach ensures that students become aware of a wide range of environmental concerns and that their research includes a breadth of environmental understanding beyond the boundaries of a particular discipline. The goal of the program is to prepare students for careers in research, management, government service, teaching, and other areas where they can make productive contributions to the solution of environmental problems.

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

Admission Requirements

Admission Requirements

Applicants for admission to the doctoral program in Environmental Sciences must have:

- a bachelor's or master's degree in science, mathematics, engineering, or environmental science;
- a grade point average of 3.0 or above on a 4.0 scale;
- international students must have a score of 3.5 or above on the TOEFL;

  Application materials may be obtained from the College of Graduate Studies.

Applicants seeking admission with Full Standing in the program must satisfy the departmental requirements.

EVS Chemistry Concentration Additional Admissions Requirements

- applicants must have a bachelor’s degree in chemistry that has been certified by the American Chemical Society or course work equivalent to this degree;
- applicants must have one (1) year each of general, organic, and physical chemistry;
- applicants must have one (1) semester of analytical and inorganic chemistry, one (1) semester of instrumental analysis.

Applicants who do not fully meet the above requirements may be admitted in Provisional Standing on the basis of a favorable recommendation to the Associate Dean of Graduate Studies by the appropriate departmental chairperson and the Director of the Environmental Sciences doctoral program. If

admitted in Provisional Standing, the student must remove all deficiencies and apply for reclassification to Full Standing prior to the completion of 15 hours of graduate work.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The general requirements for the Ph.D. degree in Environmental Sciences are:

- Concentration Core Coursework: 13 hours
- Research and Dissertation Requirement: 18 hours
- Advisor Guided Concentration Coursework: 30 hours
- Total Degree Requirement: 61 hours
- A minimum of 61 semester credits of coursework and doctoral research and dissertation as follows:
  - A minimum of 43 semester credits of coursework beyond the bachelor's degree:
    - This must include 13 semester credits of core coursework
    - This must include 30 hours of concentration coursework
    - Must include at least 12 semester credits at the 7000 level
  - A minimum of 18 semester credits of research and dissertation, resulting in the satisfactory completion of a doctoral dissertation.
- Residence of four (4) semesters beyond the bachelor's level, with at least two (2) semesters in continuous residence.
- Completion of all requirements for the degree, including the dissertation within a period of eight(8) consecutive years.
- Maintenance of a general grade point average of 3.0.
- Satisfactory completion of a comprehensive examination.
- Satisfactory presentation and defense of a doctoral dissertation.

In addition, a student must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies

Degree Requirements

Type
Completion Requirement

Concentration Core Coursework (13 Credit Hours)

Complete ALL of the following Courses:

- EVSA6010 - Environmental Agriculture
- EVSB6010 - Environmental Biology
- EVSG6010 - Environmental Geology
- EVSS6010 - Environmental Social Policy
- EVS7910 - Environmental Science Seminar

Research and Dissertation Requirement (18 hours)

Complete ALL of the following Courses:

- EVSC7990 - Research & Dissertation

Advisor Guided Concentration Coursework (30 hours)

The advisor and/or committee may define 30 hours from any EVSA, EVSB, EVSC, EVSI, EVSS, EVS, BIOL, or CHEM 6000-7000 level courses.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Guidelines for Graduate Committee Composition

The organization and appointment of advisory committees to supervise graduate study for the degree of Doctor of Philosophy in Environmental Sciences shall be the same, generally, as in the master's program, except that the advisory committee shall consist of at least five (5) members of the Graduate Faculty, plus the Director of Environmental Sciences Ph.D. program who serves as an ex officio, nonvoting member. For students concentrating in Agriculture, Biology, Chemistry, and Geosciences, three (3) members of the advisory committee shall be from the student's area of concentration, at least one (1) member shall be from a separate department of the environmental science core outside the student's area of concentration, and one (1) member may be from any department within the university. For the Integrated Research concentration, at least two (2) members shall be from departments participating in the environmental science core, one (1) member shall be from any STEM department, and two (2) members may be from any department within the university. For all concentrations, no more than three (3) committee members may be from the same department. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Guidelines for the Comprehensive Examination

Prerequisites. Before requesting that his or her major professor schedule a Comprehensive Examination, a student must:

- have achieved Full Standing in the program
- completed approximately 80% of the course work in his/her Program of Study

Descriptions

The test will consist of written and/or oral portions. The student's advisory portion will consist of four (4) sections. Total time for each section should not exceed eight (8) hours. Three (3) sections will contain material from the student's area of concentration and one (1) section will integrate material from the Environmental Sciences Core Curriculum. It is the graduate advisory committee chair's responsibility to ensure that all committee members will be involved in the administration and evaluation of the written and oral exams, per University Policy 282.

If an oral exam is to be included as part of the comprehensive exam it will be administered by the student's advisory committee within three (3) weeks of the successful completion of the written portion of the exam. A question will be included in the oral exam that tests the student's understanding of the interdisciplinary nature of Environmental Sciences.

If an oral exam is included as part of the comprehensive exam, both portions of the Comprehensive Examination will be completed during one (1) academic semester.

Results

Four-fifths of the voting members of the committee must agree that the student has successfully completed the comprehensive exam.

The student will be given one (1) additional opportunity to pass each portion of the Comprehensive Examination. Failure to pass either portion on the second try will result in the student's dismissal from the Ph.D. program.

A written evaluation of the student's performance on the Comprehensive Examination will be prepared by the student's advisory committee and kept on file in the office of the Director of the Environmental Sciences Ph.D. program.

Time Constraints

Successful completion of the Comprehensive Examination must be achieved in a timely fashion. The complete Comprehensive Examination must be scheduled and taken within a year following the completion of 80% of the course work in the student's Program of Study, including successful completion of all core courses. It shall be the student's responsibility, in consultation with his/her advisor, to schedule this examination at a date agreeable to the whole examining committee. The committee shall be given at least two (2) months advance notice of the Examination date in order to make preparations. Any second attempts to pass portions of the Comprehensive Examination must be scheduled in the subsequent (Fall/Spring) semester. Failure to follow these procedures shall result in the student's dismissal from the program. Any appeal by the student for exceptions to this policy shall be made in writing and submitted to the Executive Committee of the Ph.D. program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENV-GEOS - Environmental Sciences, Geosciences Concentration, Ph.D.

Program Overview

Program Long Title

Environmental Sciences, Geosciences Concentration, Ph.D.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Geosciences has many connections with Environmental Sciences, including study areas of climate change, depletion of sand, soils, and other terrestrial resources, hydrology and groundwater contamination, fracking and other oil/gas/coal exploration, geographic patterns in land use, geospatial analyses and remote sensing, just to name a few. Tennessee Tech has existing laboratory space to provide a venue for dissertation research projects in environmental geology, geography, and related earth sciences topic areas.

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

Admission Requirements

Admission Requirements

Applicants for admission to the doctoral program in Environmental Sciences must have:

- a bachelor's or master's degree in science, mathematics, engineering, or environmental science;
- a grade point average of 3.0 or above on a 4.0 scale;
- international students must have a score of 3.5 or above on the TOEFL;

  Application materials may be obtained from the Graduate School Office.

Applicants seeking admission with Full Standing in the program must satisfy the departmental requirements.

Applicants who do not fully meet the following requirements may be admitted in Provisional Standing on the basis of a favorable recommendation to the Associate Dean of Graduate Studies by the appropriate departmental chairperson and the Director of the Environmental Sciences doctoral program. If admitted in Provisional Standing, the student must remove all deficiencies and apply for reclassification to Full Standing prior to the completion of 15 hours of graduate work.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The general requirements for the Ph.D. degree in Environmental Sciences are:

- Concentration Core Coursework: 13 hours

- Research and Dissertation Requirement: 18 hours
- Advisor Guided Concentration Coursework: 30 hours
- Total Degree Requirement: 61 hours
- A minimum of 61 semester credits of coursework and doctoral research and dissertation as follows:
    - A minimum of 43 semester credits of coursework beyond the bachelor's degree
        - This must include 13 semester credits of core coursework
        - This must include 30 hours of concentration coursework
        - Must include at least 12 semester credits at the 7000 level
    - A minimum of 18 semester credits of research and dissertation, resulting in the satisfactory completion of a doctoral dissertation.
- Residence of four (4) semesters beyond the bachelor's level, with at least two (2) semesters in continuous residence.
- Completion of all requirements for the degree, including the dissertation within a period of eight(8) consecutive years.
- Maintenance of a general grade point average of 3.0.
- Satisfactory completion of a comprehensive examination.
- Satisfactory presentation and defense of a doctoral dissertation.

In addition, a student must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Degree Requirements

Type
Completion Requirement

Concentration Core Coursework (13 Credit Hours)

Complete ALL of the following Courses:
- EVSA6010 - Environmental Agriculture
- EVSB6010 - Environmental Biology
- EVSC6010 - Environmental Chemistry
- EVSS6010 - Environmental Social Policy
- EVS7910 - Environmental Science Seminar

Research and Dissertation Requirement (18 hours)

Complete ALL of the following Courses:
- EVSG7990 - Research and Dissertation

Advisor Guided Concentration Coursework (30 hours)

The advisor and/or committee may define 30 hours from any EVSA, EVSB, EVSC, EVSI, EVSS, EVS, BIOL, or CHEM 6000-7000 level courses.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Guidelines for Graduate Committee Composition

The organization and appointment of advisory committees to supervise graduate study for the degree of Doctor of Philosophy in Environmental Sciences shall be the same, generally, as in the master's program, except that the advisory committee shall consist of at least five (5) members of the Graduate Faculty, plus the Director of Environmental Sciences Ph.D. program who serves as an ex officio, nonvoting member. For students concentrating in Agriculture, Biology, Chemistry, and Geosciences, three (3) members of the advisory committee shall be from the student's area of concentration, at least one (1) member shall be from a separate department of the environmental science core outside the student's area of concentration, and one (1) member may be from any department within the university. For the Integrated Research concentration, at least two (2) members shall be from departments participating in the environmental science core, one (1) member shall be from any STEM department, and two (2) members may be from any department within the university. For all concentrations, no more than three (3) committee members may be from the same department. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Guidelines for the Comprehensive Examination

Prerequisites. Before requesting that his or her major professor schedule a Comprehensive Examination, a student must:

- have achieved Full Standing in the program
- completed approximately 80% of the course work in his/her Program of Study

Descriptions

The test will consist of written and/or oral portions. The student's advisory portion will consist of four (4) sections. Total time for each section should not exceed eight (8) hours. Three (3) sections will contain material from the student's area of concentration and one (1) section will integrate material from the Environmental Sciences Core Curriculum. It is the graduate advisory committee chair's responsibility to ensure that all committee members will be involved in the administration and evaluation of the written and oral exams, per University Policy 282.

If an oral exam is to be included as part of the comprehensive exam it will be administered by the student's advisory committee within three (3) weeks of the successful completion of the written portion of the exam. A question will be included in the oral exam that tests the student's understanding of the interdisciplinary nature of Environmental Sciences.

If an oral exam is included as part of the comprehensive exam, both portions of the Comprehensive Examination will be completed during one (1) academic semester.

Results

Four-fifths of the voting members of the committee must agree that the student has successfully completed the comprehensive exam.

The student will be given one (1) additional opportunity to pass each portion of the Comprehensive Examination. Failure to pass either portion on the second try will result in the student's dismissal from the Ph.D. program.

A written evaluation of the student's performance on the Comprehensive Examination will be prepared by the student's advisory committee and kept on file in the office of the Director of the Environmental Sciences Ph.D. program.

Time Constraints

Successful completion of the Comprehensive Examination must be achieved in a timely fashion. The complete Comprehensive Examination must be scheduled and taken within a year following the completion of 80% of the course work in the

student's Program of Study, including successful completion of all core courses. It shall be the student's responsibility, in consultation with his/her advisor, to schedule this examination at a date agreeable to the whole examining committee. The committee shall be given at least two (2) months advance notice of the Examination date in order to make preparations. Any second attempts to pass portions of the Comprehensive Examination must be scheduled in the subsequent (Fall/Spring) semester. Failure to follow these procedures shall result in the student's dismissal from the program. Any appeal by the student for exceptions to this policy shall be made in writing and submitted to the Executive Committee of the Ph.D. program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

ENV-IR - Environmental Sciences, Integrated Research, Ph.D.

Program Overview

Program Long Title

Environmental Sciences, Integrated Research, Ph.D.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Advances in the field of Environmental Sciences are often dependent on collaboration and interdisciplinary research to answer difficult questions in the environmental arena. Integrating expertise from other fields such as engineering, education, mathematics, sociology and political science, computer sciences, nursing, economics, history, philosophy and ethics, among others, can provide a powerful platform for addressing problems in the environmental sciences in a more effective manner.

The general requirements for the Ph.D. degree in Environmental Sciences are:

- **Concentration Core Coursework:** 13 hours
- **Research and Dissertation Requirement:** 18 hours
- **Advisor Guided Concentration Coursework:** 30 hours
- **Total Degree Requirement:** 61 hours

Admission Requirements

Admission Requirements

Applicants for admission to the doctoral program in Environmental Sciences must have:

- a bachelor's or master's degree in science, mathematics, engineering, or environmental science;
- a grade point average of 3.0 or above on a 4.0 scale;
- international students must have a score of 3.5 or above on the TOEFL;

Application materials may be obtained from the College of Graduate Studies.

Applicants seeking admission with Full Standing in the program must satisfy the departmental requirements.

Applicants who do not fully meet the following requirements may be admitted in Provisional Standing on the basis of a favorable recommendation to the Associate Dean of Graduate Studies by the appropriate departmental chairperson and the Director of the Environmental Sciences doctoral program. If admitted in Provisional Standing, the student must remove all deficiencies and apply for reclassification to Full Standing prior to the completion of 15 hours of graduate work.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The general requirements for the Ph.D. degree in Environmental Sciences are:

- Concentration Core Coursework: 13 hours
- Research and Dissertation Requirement: 18 hours

- Advisor Guided Concentration Coursework: 30 hours
- Total Degree Requirement: 61 hours
- A minimum of 61 semester credits of coursework and doctoral research and dissertation as follows:
    - A minimum of 43 semester credits of coursework beyond the bachelor's degree:
        - This must include 13 semester credits of core coursework
        - This must include 30 hours of concentration coursework
        - Must include at least 12 semester credits at the 7000 level
    - A minimum of 18 semester credits of research and dissertation, resulting in the satisfactory completion of a doctoral dissertation.
- Residence of four (4) semesters beyond the bachelor's level, with at least two (2) semesters in continuous residence.
- Completion of all requirements for the degree, including the dissertation within a period of eight(8) consecutive years.
- Maintenance of a general grade point average of 3.0.
- Satisfactory completion of a comprehensive examination.
- Satisfactory presentation and defense of a doctoral dissertation.

In addition, a student must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Degree Requirements

Type
Completion Requirement

Concentration Core Coursework (1 Credit Hours)

Complete ALL of the following Courses:
- EVS7910 - Environmental Science Seminar

Concentration Core Coursework (12 hours)

Complete at least 4 of the following courses:
- EVSA6010 - Environmental Agriculture
- EVSB6010 - Environmental Biology
- EVSC6010 - Environmental Chemistry
- EVSG6010 - Environmental Geology
- EVSS6010 - Environmental Social Policy

Research and Dissertation Requirement (18 hours)

Complete ALL of the following Courses:
- EVSI7990 - Research and Dissertation

Advisor Guided Concentration Coursework (30 hours)

The advisor and/or committee may define 30 hours from any EVSA, EVSB, EVSC, EVSI, EVSS, EVS, BIOL, or CHEM 6000-7000 level courses.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Guidelines for Graduate Committee Composition

The organization and appointment of advisory committees to supervise graduate study for the degree of Doctor of Philosophy in Environmental Sciences shall be the same, generally, as in the master's program, except that the advisory committee shall consist of at least five (5) members of the Graduate Faculty, plus the Director of Environmental Sciences Ph.D. program who serves as an ex officio, nonvoting member. For students concentrating in Agriculture, Biology, Chemistry, and Geosciences, three (3) members of the advisory committee shall be from the student's area of concentration, at least one (1) member shall be from a separate department of the environmental science core outside the student's area of concentration, and one (1) member may be from any department within the university. For the Integrated Research concentration, at least two (2) members shall be from departments participating in the environmental science core, one (1) member shall be from any STEM department, and two (2) members may be from any department within the university. For all concentrations, no more than three (3) committee members may be from the same department. Changes in a Ph.D. advisory committee must adhere to all policies and procedures governing graduate study at the University, as contained in the graduate catalog and administered by the College of Graduate Studies.

Guidelines for the Comprehensive Examination

Prerequisites. Before requesting that his or her major professor schedule a Comprehensive Examination, a student must:

- have achieved Full Standing in the program
- completed approximately 80% of the course work in his/her Program of Study

Descriptions

The test will consist of written and/or oral portions. The student's advisory portion will consist of four (4) sections. Total time for each section should not exceed eight (8) hours. Three (3) sections will contain material from the student's area of concentration and one (1) section will integrate material from the Environmental Sciences Core Curriculum. It is the graduate advisory committee chair's responsibility to ensure that all committee members will be involved in the administration and evaluation of the written and oral exams, per University Policy 282.

If an oral exam is to be included as part of the comprehensive exam it will be administered by the student's advisory committee within three (3) weeks of the successful completion of the written portion of the exam. A question will be included in the oral exam that tests the student's understanding of the interdisciplinary nature of Environmental Sciences.

If an oral exam is included as part of the comprehensive exam, both portions of the Comprehensive Examination will be completed during one (1) academic semester.

Results

Four-fifths of the voting members of the committee must agree that the student has successfully completed the comprehensive exam.

The student will be given one (1) additional opportunity to pass each portion of the Comprehensive Examination. Failure to pass either portion on the second try will result in the student's dismissal from the Ph.D. program.

A written evaluation of the student's performance on the Comprehensive Examination will be prepared by the student's advisory committee and kept on file in the office of the Director of the Environmental Sciences Ph.D. program.

Time Constraints

Successful completion of the Comprehensive Examination must be achieved in a timely fashion. The complete Comprehensive Examination must be scheduled and taken within a year following the completion of 80% of the course work in the student's Program of Study, including successful completion of all core courses. It shall be the student's responsibility, in consultation with his/her advisor, to schedule this examination at a date agreeable to the whole examining committee. The committee shall be given at least two (2) months advance notice of the Examination date in order to make preparations. Any second attempts to pass portions of the Comprehensive Examination must be scheduled in the subsequent (Fall/Spring) semester. Failure to follow these procedures shall result in the student's dismissal from the program. Any appeal by the student for exceptions to this policy shall be made in writing and submitted to the Executive Committee of the Ph.D. program.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

EPMG-CER - Engineering Project Management, Certificate

Program Overview

Program Long Title

Engineering Project Management, Certificate

College/School

Engineering

Department(s)

Manufact/Indust Systems Engr.

Catalog Full Description

The engineering project management certificate focuses on the planning, implementation, and completion of engineering projects. The certificate includes an introduction to the engineering management discipline that is accessible both to engineers and to a broader group of practitioners in related STEM fields. Topics include leadership, strategic planning, economic and financial factors, and professional, ethical, and societal impacts of technology management. A comprehensive development of the fundamentals of project management applied to scientific or technological organizations is included. Project development and relationships as well as systems engineering management are studied in detail. Analytical tools along with software support are studied to develop and execute planning and to schedule and control of technical projects. The relationship between a project and its procurement and implementation is studied. Additionally, the understanding and use of system-wide tools for the management of large-scale, technical projects is developed. This certificate is ideal for engineers and other technical professionals who want to advance into professional leadership positions that take advantage of their technical expertise.

Certificate Requirements

- Core Coursework: 6 credit hours
- Elective Coursework: 6 credit hours

Total Credit Hours: 12

Admission Requirements

Admission Requirements

Admission is open to anyone holding an accredited bachelor's or master's degree in engineering, science, or a related area. The admission decision is based on the criteria below.

- Undergraduate GPA: at least 3.0 on a 4.0 scale.
- Bachelor’s degree: a bachelor’s degree from an accredited program in engineering, science, or related area, all requiring mathematics at least through differential and integral calculus and including an upper division (junior or senior level) course in probability and statistics.
- Letters of Recommendation: two letters of recommendation that demonstrate strong evidence for success in the graduate certificate program.
- Statement of Purpose: Current resume and a one-page (350-500 words) statement of purpose.
- Resume. The resume and statement of purpose may include professional considerations not specifically mentioned in the three previous criteria, such as relevant work experience, other certifications, or test scores. Thus, the resume and statement of purpose provide an opportunity for holistic consideration of the admission criteria.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Certificate Requirements

- Core Coursework: 6 credit hours
- Elective Coursework: 6 credit hours

Total Credit Hours: 12

Course Requirements

Type
Completion Requirement

Core Courses

Complete ALL of the following Courses:
- EMGT6100 - Intro/Engineering Management
- EMGT6210 - Project Management for Engineers

Elective Courses

Complete at least 2 of the following courses:
- EMGT6220 - Project Development and Relationships
- EMGT6230 - Systems Engineering Management
- ISE5710 - Economic Evaluation of Engineering Projects

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available

ESIL-EDS - Instructional Leadership, Ed.S.

Program Overview

Program Long Title
Instructional Leadership, Ed.S.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
https://www.tntech.edu/education/ci/graduate.php

The Education Specialist degree (Ed.S.) is an online, 30 hour degree program. This program prepares educational professionals for positions as school administrators in the state of Tennessee.

- **Core Coursework:** 24 hours
- **Research Coursework:** 6 hours
- **Total Degree Requirements:** 30 hours

Graduation Requirement
- The candidate must pass the praxis exam, School Leaders Licensure Assessment (SLLA)
- Each candidate will be instructed to register for the School Leaders Licensure Assessment (SLLA) at the appropriate time during their program of study by and INSL advisor

Admission Requirements

Admission Requirements
In addition to the Department of Curriculum and Instruction Specialist in Education admission requirements, additional requirements for applicants of the Ed.S. in Instructional Leadership (INSL) program are:

1. A valid TN teaching license
2. A minimum of two (2) years teaching experience require

Note: This degree is for an endorsement seeking candidate.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Education Specialist degree (Ed.S.) is a 30 hour degree program. This program prepares educational professionals for positions as school administrators in the state of Tennessee.

- Core Coursework: 27 hours
- Research Coursework: 3 hours
- Total Degree Requirements: 30 hours

Degree Requirements

Type
Completion Requirement

Core Coursework (27 hours)

Complete ALL of the following Courses:
- INSL7510 - Lgl/Ethicl/Dvrsty Issues-INSL

- INSL7520 - HR Mgmt & Public Relations
- INSL7530 - Assmnt/Eval: Improve. In Tchng
- INSL7010 - Instructional Leadership
- INSL7400 - School Ldrship & Supervision
- CUED7801 - Lab/Field Experience in Education/Technology
  OR CUED7802 - Lab/Field Experience in Education Grant Writing
  OR CUED7803 - Lab/Field Experience in Education/ Autoethnography

Research Coursework (3 hours)

Complete ALL of the following Courses:

- CUED7910 - Advanced Research Project in Education

Total Degree Requirement: 30 hours

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

EXSC-ADPE - Exercise Science, Adapted Physical Education Concentration, M.A.

Program Overview

Program Long Title

Exercise Science, Adapted Physical Education Concentration, M.A.

College/School

Education and Human Sciences

Department(s)

Exercise Science

Catalog Full Description

The department offers an online Master of Arts degree in Exercise Science with areas of concentration in elementary/middle school physical education, fitness and lifetime wellness, adapted physical education, and sport management. Additionally, candidates may choose to take 20 directed hours in conjunction with the elementary/middle school concentration in pursuit of a Tennessee teaching license in k-12 physical education and health. The elementary/middle school concentration and the teacher licensure program are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Field experience, internships and practicum work can be performed at the student's location and monitored through the online platform.

Degree Requirements

The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

- **Core Required Courses:** 6 hours
- **Research Project Course Requirement:** 9 hours
- **Concentration Required Courses:** 15-18 hours
- **Total Degree Requirement:** 30-33 hours

Admission Requirements

Admission Requirements

Applicants are expected to have earned a BS degree from an approved program. There are no restrictions on undergraduate programs of study. Admission is decided based on a multi-parameter criterion that can include the following and will be evaluated by the graduate faculty in the department:

1. Minimum undergraduate GPA of 2.5 for provisional admission and a minimum 2.75 undergraduate GPA for full standing;

2. Minimum of two (2) letters of recommendation from individuals who can address scholarly aptitude;

3. All undergraduate transcripts;

4. Candidate provide a writing sample from an undergraduate 4000 level class or complete a writing prompt (defined and provided by the department);

5. Letter of Intent outlining the purpose and proposed outcomes of being in the program;

6. Participation in interview with departmental faculty if required.

Based on the level of satisfaction of the above criteria, the department will either recommend admission to full standing, provisional standing, or deny admission. Standing status may be changed to Full standing after the student satisfies requirements specified by the department at the time of admission or upon departmental review.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

MA in Exercise Science, Adapted Physical Education Concentration

Type
Completion Requirement

Core Required Courses (6 hours)

Complete ALL of the following Courses:

- EXPW6230 - Seminar in Exercise Science
- EXPW6240 - Assessment in Phys Ed

Capstone Research Project Course Requirement (9 hours)

Complete ALL of the following Courses:

- EXPW6510 - Research Methods
- EXPW6530 - Qualitative Research in Ex Sci
- EXPW6550 - Capstone Project

Adapted Physical Education Concentration (15 hours)

Complete ALL of the following Courses:

- SPED6010 - Surv-Disab Char,Proc,Meth/SPED
- SPED6060 - Ed-Orth & Motor Impaired
- EXPW6140 - Adapted Phys Ed & Sport
- Plus: Electives - 6 credit hours from any EXPW 5000-6000 or SPED 5000-6000 level course.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech College of Education and Human Sciences undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admissions requirements for participating in the Exercise Science, Physical Education, and Wellness program Fast Track Program are:

• Enrolled in Tennessee Tech as an undergraduate Exercise Science major with at least 90 hours of completed courses within their program of study,

• Overall GPA of 3.25 or better,

• Recommendation from the undergraduate advisor, and

• Approval by departmental coordinator of graduate studies. Fast Track program participants should consult with the undergraduate and graduate advisors regarding enrollment in the appropriate courses and must earn a minimum grade of "B" in the identified courses to apply them to their MA program of study.

Courses to be included in the Fast Track program include:

Dual listed courses:

- EXPW 4520/5520 - Adapted Physical Education and Sport
- EXPW 4730/5730 - Assessment in Exercise Science
- EXPW 4440/5440 - Exercise Physiology
- EXPW 4042/5042 - Health Promotion

(Courses listed at the 5000 level will include additional graduate coursework and a culminating project in each course.)

Graduate courses:

- EXPW 6140 - Assessment and Strategies for Adapted Physical Education
- EXPW 6240 - Assessment in Sport, Physical Education and Wellness
- EXPW 6440 - Physiology of Exercise
- EXPW 6042 - Health Promotions

In addition to requirements for admission to the Fast Track BS/MA program, all requirements for admission to the College of Graduate Studies must also be met upon graduation. Meeting the minimum requirements does not guarantee admission to the graduate program.

EXSC-EMPE - Exercise Science, Elementary & Middle School Physical Education Concentration, M.A.

Program Overview

Program Long Title
Exercise Science, Elementary & Middle School Physical Education Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Catalog Full Description
The department offers an online Master of Arts degree in Exercise Science with areas of concentration in elementary/middle school physical education, fitness and lifetime wellness, adapted physical education, and sport management. Additionally, candidates may choose to take 20 directed hours in conjunction with the elementary/middle school concentration in pursuit of a Tennessee teaching license in k-12 physical education and health. The elementary/middle school concentration and the teacher licensure program are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Field experience, internships and practicum work can be performed at the student's location and monitored through the online platform.

Degree Requirements
The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

- **Core Required Courses:** 6 hours
- **Research Project Course Requirement:** 9 hours
- **Concentration Required Courses:** 15-18 hours
- **Total Degree Requirement:** 30-33 hours

At least 70% of courses taken must be at the 6000 level

Admission Requirements

Admission Requirements
Applicants are expected to have earned a BS degree from an approved program. There are no restrictions on undergraduate programs of study. Admission is decided based on a multi-parameter criterion that can include the following and will be evaluated by the graduate faculty in the department:

1. Minimum undergraduate GPA of 2.5 for provisional admission and a minimum 2.75 undergraduate GPA for full standing;

2. Minimum of two (2) letters of recommendation from individuals who can address scholarly aptitude;

3. All undergraduate transcripts;

4. Candidate provide a writing sample from an undergraduate 4000 level class or complete a writing prompt (defined and provided by the department);

5. Letter of Intent outlining the purpose and proposed outcomes of being in the program;

6. Participation in interview with departmental faculty if required.

Based on the level of satisfaction of the above criteria, the department will either recommend admission to full standing, provisional standing, or deny admission. Standing status may be changed to Full standing after the student satisfies requirements specified by the department at the time of admission or upon departmental review.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

Degree Requirement
- Core Required Courses: 6 hours
- Research Project Course Requirement: 9 hours
- Concentration Required Courses: 15-18 hours
- Total Degree Requirement: 30-33 hours

At least 70% of courses taken must be at the 6000 level.

MA in Exercise Science, Elementary & Middle School Physical Education Concentration

Type
Completion Requirement

Core Required Courses (6 hours)

Complete ALL of the following Courses:
- EXPW6230 - Seminar in Exercise Science
- EXPW6240 - Assessment in Phys Ed

Capstone Research Project Course Requirement (9 hours)

Complete ALL of the following Courses:
- EXPW6510 - Research Methods
- EXPW6530 - Qualitative Research in Ex Sci
- EXPW6550 - Capstone Project

Elementary & Middle School Physical Education Concentration (15 hours)

Complete ALL of the following Courses:
- EXPW6210 - Curriculum Design/Phys Ed
- EXPW6350 - Inst Strategies/Phys Ed
- EXPW6450 - Tch Middle School Phys Ed
- EXPW6140 - Adapted Phys Ed & Sport
  OR EXPW6250 - Applied Motor Dev/Motor Learn
  OR EXPW6700 - Independent Study
- Plus: Elective - 3 credit hours from any EXPW 5000-6000 level course.

Teacher Licensure Option (EMPE requirement plus 20 credit hours for licensure)

Student must be admitted to Teacher Education program.

Complete ALL of the following Courses:
- EXPW6140 - Adapted Phys Ed & Sport
- EXPW6210 - Curriculum Design/Phys Ed
- EXPW6350 - Inst Strategies/Phys Ed
- EXPW6450 - Tch Middle School Phys Ed
- Advisor Guided Elective - 3 credit hours. (EXPW 5000,6000, or 7000 level)

Licensure Requirement (20 credit hours)

(Only students who's concentration is EMPE may take the additional 20 hours to gain the k-12 PE teaching license.)

Complete ALL of the following Courses:

- EXPW6100 - Instruction in Phys Ed
- EXPW6595 - Fld Exp in Physical Education
- EXPW6880 - Student Teaching in Phys Ed
- EXPW6881 - Prof Seminar in Physical Edu
- EXPW6440 - Physiology of Exercise
  OR EXPW5940 - Fitness & Wellness

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech College of Education and Human Sciences undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admissions requirements for participating in the Exercise Science, Physical Education, and Wellness program Fast Track Program are:

• Enrolled in Tennessee Tech as an undergraduate Exercise Science major with at least 90 hours of completed courses within their program of study,

• Overall GPA of 3.25 or better,

• Recommendation from the undergraduate advisor, and

• Approval by departmental coordinator of graduate studies. Fast Track program participants should consult with the undergraduate and graduate advisors regarding enrollment in the appropriate courses and must earn a minimum grade of "B" in the identified courses to apply them to their MA program of study.

Courses to be included in the Fast Track program include:

Dual listed courses:

- EXPW 4520/5520 - Adapted Physical Education and Sport
- EXPW 4730/5730 - Assessment in Exercise Science
- EXPW 4440/5440 - Exercise Physiology
- EXPW 4042/5042 - Health Promotion

(Courses listed at the 5000 level will include additional graduate coursework and a culminating project in each course.)

Graduate courses:

- EXPW 6140 - Assessment and Strategies for Adapted Physical Education
- EXPW 6240 - Assessment in Sport, Physical Education and Wellness
- EXPW 6440 - Physiology of Exercise
- EXPW 6042 - Health Promotions

In addition to requirements for admission to the Fast Track BS/MA program, all requirements for admission to the College of Graduate Studies must also be met upon graduation. Meeting the minimum requirements does not guarantee admission to the graduate program

EXSC-LW - Exercise Science, Lifetime Wellness Concentration, M.A.

Program Overview

Program Long Title
Exercise Science, Lifetime Wellness Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Catalog Full Description
The department offers an online Master of Arts degree in Exercise Science with areas of concentration in elementary/middle school physical education, fitness and lifetime wellness, adapted physical education, and sport management. Additionally, candidates may choose to take 20 directed hours in conjunction with the elementary/middle school concentration in pursuit of a Tennessee teaching license in k-12 physical education and health. The elementary/middle school concentration and the teacher licensure program are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Field experience, internships and practicum work can be performed at the student's location and monitored through the online platform.

Degree Requirements
The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

- **Core Required Courses:** 6 hours
- **Research Project Course Requirement:** 9 hours
- **Concentration Required Courses:** 15-18 hours
- **Total Degree Requirement:** 30-33 hours

At least 70% of courses taken must be at the 6000 level.

Admission Requirements

Admission Requirements
Applicants are expected to have earned a BS degree from an approved program. There are no restrictions on undergraduate programs of study. Admission is decided based on a multi-parameter criterion that can include the following and will be evaluated by the graduate faculty in the department:

1. Minimum undergraduate GPA of 2.5 for provisional admission and a minimum 2.75 undergraduate GPA for full standing;

2. Minimum of two (2) letters of recommendation from individuals who can address scholarly aptitude;

3. All undergraduate transcripts;

4. Candidate provide a writing sample from an undergraduate 4000 level class or complete a writing prompt (defined and provided by the department);

5. Letter of Intent outlining the purpose and proposed outcomes of being in the program;

6. Participation in interview with departmental faculty if required.

Based on the level of satisfaction of the above criteria, the department will either recommend admission to full standing, provisional standing, or deny admission. Standing status may be changed to Full standing after the student satisfies requirements specified by the department at the time of admission or upon departmental review.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

Degree Requirement
- Core Required Courses: 6 hours
- Research Project Course Requirement: 9 hours
- Concentration Required Courses: 15-18 hours
- Total Degree Requirement: 30-33 hours

At least 70% of courses taken must be at the 6000 level.

MA in Exercise Science, Lifetime Wellness Concentration

Type
Completion Requirement

Core Required Courses (6 hours)

Complete ALL of the following Courses:
- EXPW6230 - Seminar in Exercise Science
- EXPW6240 - Assessment in Phys Ed

Capstone Research Project Course Requirement (9 hours)

Complete ALL of the following Courses:
- EXPW6510 - Research Methods
- EXPW6530 - Qualitative Research in Ex Sci
- EXPW6550 - Capstone Project

Fitness and Lifetime Wellness Concentration (15 hours)

Complete ALL of the following Courses:
- EXPW5940 - Fitness & Wellness
- EXPW6042 - Wellness Promotion
- EXPW6440 - Physiology of Exercise
- EXPW6250 - Applied Motor Dev/Motor Learn
  OR EXPW6590 - Field Experiences
  OR EXPW6720 - Lgl/Ethcl/Rsk Mgmt Issues-Sprt
- Plus: Elective - 3 credit hours from any EXPW 5000-6000 level course.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program
The Fast Track program is designed to enable TN Tech College of Education and Human Sciences undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admissions requirements for participating in the Exercise Science, Physical Education, and Wellness program Fast Track Program are:

• Enrolled in Tennessee Tech as an undergraduate Exercise Science major with at least 90 hours of completed courses within their program of study,

• Overall GPA of 3.25 or better,

• Recommendation from the undergraduate advisor, and

• Approval by departmental coordinator of graduate studies. Fast Track program participants should consult with the undergraduate and graduate advisors regarding enrollment in the appropriate courses and must earn a minimum grade of "B" in the identified courses to apply them to their MA program of study.

Courses to be included in the Fast Track program include:

Dual listed courses:

- EXPW 4520/5520 - Adapted Physical Education and Sport
- EXPW 4730/5730 - Assessment in Exercise Science
- EXPW 4440/5440 - Exercise Physiology
- EXPW 4042/5042 - Health Promotion

(Courses listed at the 5000 level will include additional graduate coursework and a culminating project in each course.)

Graduate courses:

- EXPW 6140 - Assessment and Strategies for Adapted Physical Education
- EXPW 6240 - Assessment in Sport, Physical Education and Wellness
- EXPW 6440 - Physiology of Exercise
- EXPW 6042 - Health Promotions

In addition to requirements for admission to the Fast Track BS/MA program, all requirements for admission to the College of Graduate Studies must also be met upon graduation. Meeting the minimum requirements does not guarantee admission to the graduate program.

EXSC-SPMT - Exercise Science, Sport Management Concentration, M.A.

Program Overview

Program Long Title
Exercise Science, Sport Management Concentration, M.A.

College/School
Education and Human Sciences

Department(s)
Exercise Science

Catalog Full Description
The department offers an online Master of Arts degree in Exercise Science with areas of concentration in elementary/middle school physical education, fitness and lifetime wellness, adapted physical education, and sport management. Additionally, candidates may choose to take 20 directed hours in conjunction with the elementary/middle school concentration in pursuit of a Tennessee teaching license in k-12 physical education and health. The elementary/middle school concentration and the teacher licensure program are accredited by the Council for the Accreditation of Educator Preparation (CAEP). Field experience, internships and practicum work can be performed at the student's location and monitored through the online platform.

Sport Management - Anyone wanting to work as an administrator in various positions within the sports industry will be interested in this concentration.

The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

- **Core Required Courses:** 6 hours
- **Research Project Course Requirement:** 9 hours
- **Concentration Required Courses:** 15-18 hours
- **Total Degree Requirement:** 30-33 hours

At least 70% of courses taken must be at the 6000 level.

Admission Requirements

Admission Requirements
Applicants are expected to have earned a BS degree from an approved program. There are no restrictions on undergraduate programs of study. Admission is decided based on a multi-parameter criterion that can include the following and will be evaluated by the graduate faculty in the department:

1. Minimum undergraduate GPA of 2.5 for provisional admission and a minimum 2.75 undergraduate GPA for full standing;

2. Minimum of two (2) letters of recommendation from individuals who can address scholarly aptitude;

3. All undergraduate transcripts;

4. Candidate provide a writing sample from an undergraduate 4000 level class or complete a writing prompt (defined and provided by the department);

5. Letter of Intent outlining the purpose and proposed outcomes of being in the program;

6. Participation in interview with departmental faculty if required.

Based on the level of satisfaction of the above criteria, the department will either recommend admission to full standing, provisional standing, or deny admission. Standing status may be changed to Full standing after the student satisfies requirements specified by the department at the time of admission or upon departmental review.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Master of Arts in Exercise Science is a 30-33 credit hour degree program. Teacher Licensure is available and requires an additional 20 hours to obtain such licensure. Degree requirements are summarized as follows:

Degree Requirement

- Core Required Courses: 6 hours
- Research Project Course Requirement: 9 hours
- Concentration Required Courses: 15-18 hours
- Total Degree Requirement: 30-33 hours

At least 70% of courses taken must be at the 6000 level.

MA in Exercise Science, Sport Management Concentration

Type
Completion Requirement

Core Required Courses (6 hours)

Complete ALL of the following Courses:

- EXPW6230 - Seminar in Exercise Science
- EXPW6240 - Assessment in Phys Ed

Capstone Research Project Course Requirement (9 hours)

Complete ALL of the following Courses:

- EXPW6510 - Research Methods
- EXPW6530 - Qualitative Research in Ex Sci
- EXPW6550 - Capstone Project

Sport Management Concentration (18 hours)

Complete ALL of the following Courses:

- EXPW6710 - Leadership/Management in Sport
- EXPW6720 - Lgl/Ethcl/Rsk Mgmt Issues-Sprt
- EXPW6730 - Admin/Supervision of Sport
- EXPW6740 - Sport Marketing & Promotions
- EXPW6750 - Dsgn/Mgmt-Leisure/Sprt Fclties
- EXPW6760 - Internship - Sports Management

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech College of Education and Human Sciences undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admissions requirements for participating in the Exercise Science, Physical Education, and Wellness program Fast Track Program are:

• Enrolled in Tennessee Tech as an undergraduate Exercise Science major with at least 90 hours of completed courses within their program of study,

• Overall GPA of 3.25 or better,

• Recommendation from the undergraduate advisor, and

• Approval by departmental coordinator of graduate studies. Fast Track program participants should consult with the undergraduate and graduate advisors regarding enrollment in the appropriate courses and must earn a minimum grade of "B" in the identified courses to apply them to their MA program of study.

Courses to be included in the Fast Track program include:

Dual listed courses:

- EXPW 4520/5520 - Adapted Physical Education and Sport
- EXPW 4730/5730 - Assessment in Exercise Science
- EXPW 4440/5440 - Exercise Physiology
- EXPW 4042/5042 - Health Promotion

(Courses listed at the 5000 level will include additional graduate coursework and a culminating project in each course.)

Graduate courses:

- EXPW 6140 - Assessment and Strategies for Adapted Physical Education
- EXPW 6240 - Assessment in Sport, Physical Education and Wellness
- EXPW 6440 - Physiology of Exercise
- EXPW 6042 - Health Promotions

In addition to requirements for admission to the Fast Track BS/MA program, all requirements for admission to the College of Graduate Studies must also be met upon graduation. Meeting the minimum requirements does not guarantee admission to the graduate program.

FEW-CER - Interdisciplinary Training at the Food-Energy-Water (FEW) Nexus Certificate

Program Overview

Program Long Title
Interdisciplinary Training at the Food-Energy-Water (FEW) Nexus Certificate

College/School
Engineering

Department(s)
Chemical Engineering

Catalog Full Description
The Department of Chemical Engineering offers a 13 credit-hour graduate certificate in the area of Interdisciplinary Training at the Food-Energy-Water Nexus. This certificate program is designed to increase the cultural awareness and interdisciplinary training of holistic professionals working in a wide array of academic, governmental, social, and industrial settings. Students may earn this certificate as a part of an approved M.S. or Ph.D. program.

Admission Requirements

Admission Requirements
Acceptance into an approved graduate-level program at Tennessee Tech University, and after consulting with their advisor, submission of the necessary documentation for approval.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Students must complete the following required coursework:

• CHE6100 Intro to Food, Energy, Water Intro to FEW: Problem Identification, Teamwork, and Prototyping (1 Credit Hour) or CUED7150 Topics Intro to Food, Energy, Water (1 Credit Hour)

• SOC6100 Interdisc Cultural Training or HIST6100 Interdisc Cultural Training Cultural Training (3 Credit Hours)

• CHE6130 FEW Nexus Challenge FEW Nexus Challenge (3 Credit Hours) or CUED7150 Topics FEW Nexus Challenge (3 Credit Hours)

• CHE6150 Interdisc Integration/Techniq. Interdisciplinary Integration and Techniques (3 Credit Hours)

And complete of one (1) of the following directed electives:

• CHE6950 Dir. Studies/Immer. Experience Directed Studies – Immersion Experience (3 Credit Hours)*

• CHE6960 FEW Nexus Capstone FEW Nexus Capstone (3 Credit Hours)

• CUED7200 Food System Programs/FEW Nexus Educational Approaches to Food Systems at the FEW Nexus (3 Credit Hours)

• EVSI7970 Topics in Environ Integr Rsrch Topics in Environmental Integrated Research (3 Credit Hours)

• Energy at the FEW Nexus (3 Credit Hours)

• EVSS6010 Environmental Social Policy Environmental Policy Analysis (3 Credit Hours)

*3 elective credit hours of the 13 required may be certified by completing the equivalent of 45 clock hours (1 credit hour = 15 clock hours) of immersion and service learning experiences within partnering communities. These hours must be pre-approved by the TTU Office of Service Learning who will track hours accumulated and maintain records of completion. Students will be able to count these hours in the certificate by enrolling in a Service Learning course (zero credits; no cost) in the semester in which the hours are completed.

Total Credit Hours for Certificate: 13

Undergraduate Fast Track Program

Undergraduate Fast Track Program
Not Available.

FNP-CER - Nursing, Post Graduate Certificate, Family Nurse Practitioner (FNP)

Program Overview

Program Long Title
Nursing, Post Graduate Certificate, Family Nurse Practitioner (FNP)

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
This post-graduate certificate in Family Nurse Practitioner will allow APRN's certified in other concentrations to expand their role and increase their marketability.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Certificate is 23 credit hours, a total of 540 clock hours.

Admission Requirements

Admission Requirements
For Current Advance Practice RN (APRN)

- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Current certification as an APRN
- Resume or CV with three (3) professional references with appropriate contact information
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Additionally, For Non-Advance Practice RN (APRN)

- Non-APRN's holding a minimum of a Master of Science in Nursing are encouraged to apply to the FNP concentration for an evaluation of their transcript to determine placement in the curriculum.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Certificate is 23 credit hours, total of 540 clock hours.

Required Courses

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- NURS6610 - Adult Health Primary Care I
- NURS6611 - Adult Hlth Primary Care I Pra
- NURS6614 - Primary Care Ped & Wmn Hlth
- NURS6612 - Adult Health Primary Care II
- NURS6613 - Adult Hlth Primary Care II
- NURS6615 - Primary Care/Family: Practicum
- NURS6616 - Final FNP Preceptorship
- NURS6910 - Role Trans to Cert/Practice

Concentration(s) Total credits = 23

Total Clock Hours: 540 hours

Additional Information

Information And Additional Notes
Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
    - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
    - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
    - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
    - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.

- Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GP A of 3 .0 after one semester may be subject to dismissal without a probationary term.
- An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the course work for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

HCI-CER - Healthcare Informatics Certificate, M.B.A.

Program Overview

Program Long Title
Healthcare Informatics Certificate, M.B.A.

College/School
Business

Department(s)
Business

Catalog Full Description
The Tennessee Tech MBA is fully accredited by AACSB International-the highest attainable level of accreditation. The MBA degree may be obtained completely online or through a combined online/on-campus program of study.

The MBA program offers the option for 100% online completion, in as little as one year. The online learning environment is highly interactive and incorporates case discussions, teamwork, simulations, and other active-learning approaches .MBA courses make a strong connection between academic subjects and the practical issues facing managers in todays globally competitive, high tech, and analytically-focused business environment.

MBA with a Certificate
- **Core Required Courses:** 24 hours
- **Certificate Courses:** 12 hours
- **Total:** 36 hours

Admission Requirements

Admission Requirements

MBA Admission Requirements
Tennessee Techs AACSB-accredited Master of Business Administration (MBA) program maintains an admission process that considers applicants total academic and work-life achievements. Admission is open to qualified students with a bachelor's degree from a regionally accredited institution. No GMAT or GRE test score is required to apply. Applications are accepted for fall, spring, and summer semester admission. Application deadlines are listed on the University's Graduate Studies webpage.

To Apply: Visit the online application portal Apply Here, create an account, complete the application, and upload the following required documents:

A current resume, containing dates for all work experience and degrees received.

Official transcripts from all institutions where classes were taken and/or a degree received. Factors that may be considered in the admission decision are:

Undergraduate GPA*

Professional Work Experience

Graduate Degrees and Relevant Achievements

Professional work experience is post-undergraduate professional or military experience and should be described on the applicants resume.

Graduate degrees (e.g., MD, JD, MS, MA, PharmD, etc.) should be documented on the applicant's transcript(s) and denoted on the resume.

Timely application is important. Applicants are advised to submit their completed application and all required documentation early to be given full consideration for upcoming semesters. Visit the Graduate Admissions Calendar for a complete list of application deadlines.

Important to Note: Additional information is required by Graduate Studies for international students (see Graduate Studies website). A score of 4.0 on the TOEFL or a band score of 6.0 on the IELTS is required for all students whose native language is other than English. Students must be proficient in the use of word processing, spreadsheet, and presentation software including the integration of all three of the above.

Academic Background

The Tennessee Tech MBA welcomes applicants from all academic majors. An undergraduate business degree or prerequisite business courses are not required to be admitted to the program. In lieu of prerequisite coursework, the program provides a self-paced orientation experience that allows students to start the MBA with foundational knowledge. Further details about orientation arrive to accepted students in their admissions information packet.

Standing Upon Admission

Students may be admitted in Full Standing or with Provisional Standing. Admission in Full gives students the greatest flexibility in taking MBA courses. Students admitted provisionally must take ECON 6050 within the first nine (9) hours of their program and maintain a 3.0 GPA on the first nine (9) hours of MBA core content completed. Upon meeting these requirements, the provisional student will be moved to Full Standing.

Quality of Work

An MBA student is required to maintain a cumulative grade average of at least B (3.0) on all courses taken for degree purposes, and must achieve a grade of B or better in BMGT 6950 . Students must repeat BMGT 6950 until a grade of B or better is obtained. Other courses may be repeated at the discretion of the student, and both the original grade and the grade for the repeat will be counted in the cumulative average. Any student receiving a Dor an F in an MBA degree course shall be dismissed from the program.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

MBA with a Certificate

- Core Required Courses: 24 hours
- Certificate Courses: 12 hours
- Total: 36 hours

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

Note: Participants from the Graduate School of Banking at LSU or the Barrette School of Banking may, upon approval, substitute 6 hours of course credit towards the TTU MBA program.

Degree Requirements

Type

Completion Requirement

Core Required Courses

Complete ALL of the following Courses:

- ACCT6010 - Acct Info for Mgmt Decisions
- BMGT6200 - Organizational Leadership
- BMGT6950 - Business Strategy
- DS6220 - Management of Info Technology
- ECON6050 - Analytical Decision Making
- ECON6000 - Managerial Economics
- FIN6020 - Financial Management
- MKT6100 - Strategic Marketing

Certificate Requirements

Complete at least 4 of the following courses:

- ECON6900 - Special Topics
  OR PRST6530 - Healthcare Systems Economics
- DS6570 - Cyber Security Mgmt.
- DS6530 - Advanced Data Analytics
- PRST6540 - Health Informatics
  OR PRST6550 - Comp-Based Dec Modlng-Hlth Adm
  OR PRST6560 - Bio Sciences for Hlthcr Admin
  OR PRST6570 - Public Health

*PRST courses are MPS courses and only count as a certificate course and not an MBA elective.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast Track allows selected undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MBA program. Once admitted to Fast Track, the student will be allowed to enroll in appropriate MBA courses in the senior year with the consent of the student's undergraduate advisor and the director of Graduate Business Programs. Participation does not change the requirements for the students undergraduate or MBA program.

Admission to Fast-Track

Minimum requirements for admission are:

90 hours of undergraduate work or senior standing and successful completion of any required prerequisites

Recommendation of a faculty member in the students major

Overall GPA of 3.2 and GPA of 3.2 in the students major

Program participants should consult with their future MBA advisor regarding appropriate graduate courses to take during their senior year.

All requirements for full admission to Graduate School must be met upon graduation.

Students who do not receive a grade of B or better in the fast-tracked course will be advised to withdraw from the Fast Track program and complete their B.S. degree as normal.

Fulfilling the above minimum requirements does not guarantee acceptance into the Master of Business Administration Fast Track program or the MBA program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

HCI2-CER - Healthcare Informatics Certificate, M.P.S.

Program Overview

Program Long Title
Healthcare Informatics Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
Graduate Certificates Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Certificate requires 12-credit hours.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Graduate Certificates Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Certificate requires 12 credit hours.

Certificate Course Requirements

Type
Completion Requirement

Certificate Requirements

Note, the student's advisor may allow for a course substitution in certificate requirements.

Complete at least 4 of the following courses:

- PRST6530 - Healthcare Systems Economics
- PRST6540 - Health Informatics
- PRST6550 - Comp-Based Dec Modlng-Hlth Adm
- PRST6560 - Bio Sciences for Hlthcr Admin
- PRST6570 - Public Health

Undergraduate Fast Track Program

Undergraduate Fast Track Program
The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

HRED-PHD - Higher Education, Ph.D.

Program Overview

Program Long Title
Higher Education, Ph.D.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Doctor of Philosophy (PhD) in Higher Education will offer advanced graduate study to students seeking professional positions in higher education grounded in data science and technological innovation. The program will also include a quantitative research core which will emphasize mastery in various theoretical frameworks with an emphasis on data science in order “to foster creative, relevant solutions using reliable, valid data and innovative platforms and systems to drive change.” The program aims to prepare students for careers as academic faculty, administrators, policy analysts, and educational researchers who can leverage robust and complex data across educational systems to better understand student access, persistence, and success. The program is a self-paced, 67-credit hour online program. Time to completion is dependent on enrollment status, individual courseload per semester, course sequencing, course offerings, and dissertation research needs. Students have eight years from the point of enrollment to complete the doctoral degree.

The doctoral program will require 67 credit hours comprised of the following program requirements:

TYPE OF COURSES	CREDIT HOURS
Core Courses	25
Data Science Courses	12
Research Courses	15
Dissertation	15
Total	67 Credit hours

Success and informed professionalism in these areas is vital in today’s competitive university landscape. A terminal (doctoral) degree provides students an opportunity to move into professional roles as they gain more experience. In today’s data-driven, evidence-based context, the knowledge and skills garnered through this program will contribute to additional growth and success and situate them for greater contributions to their institutions.

The program will provide preparation to be adapted to any postsecondary role with a focus to improve college access, student success, and persistence to completion. Driven by data science, program candidates will apply actionable approaches to face challenges confronting higher education. Ph.D. candidates will also learn to use cutting-edge technology to best serve students and guide higher education practices and policies.

Graduates will use their data science knowledge and skills to guide colleges and universities, state higher education agencies, foundations, and related associations.

Admission Requirements

Admission Requirements
To be considered for admission, students must submit their admissions application before July 1.

Statement of intent (1-2 pages) detailing intended enrollment, autobiographical statement, educational and professional goals, and area of interest for future research;

Two letters of recommendation that speak to the individual's scholarly aptitude and capability, particularly with respect to graduate-level work;

Academic transcripts from all institutions attended;

An academic writing sample that demonstrates excellent scholarly writing ability (applicant must be sole author);

3.0 or better (on a 4.0 scale) grade point average (GPA):

- Based on the applicant's GPA in the last graduate degree or the last 60 hours of undergraduate work (for those with an undergraduate degree only);
- From a recognized baccalaureate, graduate, or professional degree from a regionally accredited college or university, or an international equivalent based on a four-year curriculum.

Professional Curriculum Vitae (CV) / Resume

An interview at the discretion of the Higher Education Ph.D. application review committee.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Core Courses = 25 Credit Hours

Type
Completion Requirement

Required Core Courses

Complete ALL of the following Courses:

- HRED7000 - Seminar in Higher Education
- HRED7010 - Trends & Issues in Higher Edu
- HRED7020 - Ethical Aspects of Higher Educ
- HRED7030 - College and University Management
- HRED7040 - Public Policy & Higher Ed Law
- HRED7050 - Ed Tech, Dsgn, Innov/Higher Ed
- HRED7130 - Leadershp Devel & Transformatn
- HRED7140 - Col Access/Afford & St.Success
- HRED7150 - PPEA for HrEd Admins

Data Science Courses = 12 Credit Hours

Type
Completion Requirement

Data Science Courses

Complete ALL of the following Courses:

- HRED7160 - Fundamentals of Data Science
- HRED7170 - Applications of Data Analysis
- HRED7180 - Data Manip., Analyt, & Vis
- HRED7190 - Predictive Analytics

Research Courses = 15 Credit Hours

Type
Completion Requirement

Research Courses

Complete ALL of the following Courses:

- EDU7300 - Research Design
- EDU7420 - Quant Inquiry in Edu I
- EDU7430 - Quant Inquiry in Edu II
- EDU7900 - Scholarly Inquiry and Design Seminar
- EDU7920 - Research Seminar/Education

Dissertation = 15 Credit Hours (minimum)

Type
Completion Requirement

Dissertation Hours

Complete ALL of the following Courses:

- EDU7990 - Research and Dissertation

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

HRL-CER - Human Resource Leadership Certificate, M.P.S.

Program Overview

Program Long Title
Human Resource Leadership Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
Human Resource professionals are increasingly becoming an integral part of an organization's strategic planning process. Company executives turn to HR professionals for policy directives and creative ways to use human capital for improved performance results.

The Human Resources Leadership Certificate through the School of Professional Studies focuses on a variety of workplace factors (economic, environmental, ethical, legal, political and administrative) and the impact they can have on organizational productivity, performance, and behavior.

The objective of this program is to help students develop a strong foundation in HR principles and procedures, as well as develop critical thinking skills required to make good decisions and solve problems concerning the human side of business.

An interdisciplinary studies approach to this field is a perfect fit - succeeding in human resources requires a variety of skills, abilities, experiences, knowledge and the excellent graduate-level degree education students will receive through the flexible and rewarding program.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Certificate requires 12-credit hours.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The student will complete 12 credit hours of coursework (course options are listed below) to earn the Graduate Certificate in Human Resources Leadership.

Certificate Requirements

Type
Completion Requirement

Certificate Requirements

Complete at least 4 of the following courses:

- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6700 - Conflict Management and Negotiation
- PRST6721 - Managing Emergency Volunteers
- PRST6781 - Science of Contact Tracing
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships
- PRST6910 - Employment & Human Resources
- PRST6920 - Diversity in the Workplace
- PRST6930 - Compensation and Benefits
- PRST6940 - Recruitmnt/Selectn/Retentn

Optional Special Topics Course

Some students may be advised to participate in a special topics course as part of the 12 hour requirement.

Earn at least 3 credits from the following:

- PRST/Special Topics

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

IBIO-PHD - Integrative Biology, Ph.D.

Program Overview

Program Long Title

Integrative Biology, Ph.D.

College/School

Arts and Sciences

Department(s)

Biology

Catalog Full Description

The PhD Program in Integrative Biology provides comprehensive training across fundamental biological disciplines, including cellular and molecular biology, physiology, ecology, evolution, conservation biology, and environmental science. Our program emphasizes the integration of multiple scales of biological organization, with particular attention to research opportunities in the unique ecological systems of Tennessee and the Upper Cumberland region. Through our state-of-the-art facilities and strategic location, students engage in both laboratory and field-based research that addresses critical questions in modern biology.

At Tennessee Tech, we recognize that graduate education represents a significant advancement beyond undergraduate studies, emphasizing independent research and scholarly development. Our program philosophy centers on flexibility and personalization, acknowledging that each student brings unique academic backgrounds, research interests, and career aspirations. Moreover, the program's integrative nature requires flexibility in the plan of study as each student will require a unique set of knowledge and skills from various subdisciplines. Through close 3 consultation with faculty advisors and advisory committees, students develop individualized research programs that build both depth in their chosen specialization and breadth across relevant biological disciplines, preparing them for successful careers in academia, government agencies, or the private sector.

While conventional Biology or Biological Sciences programs typically guide students toward specialization in particular subdisciplines (such as molecular biology, physiology, or ecology), Integrative Biology emphasizes the connections between these levels and trains researchers to work at their intersections. This cross-scale approach allows students to explore how molecular mechanisms influence cellular processes, how these affect organismal function, and ultimately how these dynamics shape ecological and evolutionary patterns. The program's research questions are inherently integrative, addressing complex biological challenges that cannot be fully understood through a single disciplinary perspective. Rather than producing specialists in isolated subfields, the program develops scientists who can synthesize knowledge across traditional boundaries to generate novel insights and approaches to biological research.

Additionally, the program's structure and methodological approach are distinctly different from traditional biology programs. Rather than organizing coursework around isolated biological subdisciplines, the Integrative Biology curriculum emphasizes integrative themes and problems that require multiple perspectives to solve. Students learn diverse research methodologies and analytical approaches to address complex biological questions that cannot be answered through a single disciplinary lens. The program's training emphasizes methodological pluralism, teaching students to select and integrate appropriate techniques from different biological subdisciplines based on the research question rather than disciplinary tradition. This integration of multiple research approaches prepares graduates with a unique skill set specifically designed to tackle multifaceted biological challenges in ways that traditionally trained biologists might not be equipped to address.

Furthermore, the program cultivates a systems-thinking perspective that enables graduates to identify emergent properties and relationships that might be overlooked in more reductionist approaches, making them particularly valuable in research contexts requiring comprehensive biological understanding.

As such, the purpose of this program is three-fold:

• To design a new kind of degree program that seeks to exist in the “intersection” between the disciplines within the life sciences that form our public and private sector workforce

• To develop researchers with advanced analytical skills who can contribute to solving pressing environmental and biological challenges.

• To advance scientific knowledge through integrative approaches that transcend traditional disciplinary silos.

Degree Requirements

- **Core Coursework**: 13 credit hours
- **Graduate Electives:** 12 credit hours
- **Research/Dissertation Requirements**: 35 credit hours

Total Credit Hour Requirement: 60

Admission Requirements

Admission Requirements

1. Applicants must hold a baccalaureate degree from an institution accredited by a recognized accrediting agency.

2. Applicants with a must have a minimum overall grade point average of 3.0 (on a 4.0 scale) for the highest degree earned.

3. Official transcripts from all previously attended institutions.

4. Three (3) letters of recommendation from individuals qualified to evaluate the applicant's preparedness for doctoral-level study.

5. A current resume or curriculum vitae.

6. Signed Graduate Advisor Acceptance Form

7. International applicants are required to submit official TOEFL or IELTS scores, unless their baccalaureate degree was earned from an accredited English-speaking university.

Admission to the Integrative Biology PhD Program is granted based on the following criteria:

1. Faculty mentorship availability: Admission is contingent upon the availability of a faculty member willing to serve as the student's research director and program mentor. Given the essential nature of the student-faculty relationship in doctoral education, prospective applicants are strongly encouraged to establish contact with potential faculty advisors before submitting their application.

2. Academic record: The program maintains selective admission standards, with the GPA requirements outlined above serving as baseline criteria in the evaluation process.

3. Professional recommendations: Three letters of recommendation must be submitted as part of the complete application package. Application review will not commence until all required materials have been received.

Conditional admission may be considered in exceptional circumstances for applicants who do not meet standards for regular admission but possess outstanding research experience or professional training. Conditional admission must be approved by the PhD Program Coordinator. In such cases, a faculty sponsor must provide written justification explaining why the applicant deserves conditional admission and the sponsor’s commitment to serve as the applicant's major professor. The student must apply for reclassification after having satisfactorily removed any conditions or requirements as stated on their admission form by using the “Application for Reclassification to Full Standing Form”.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

- **Core Coursework**: 13 credit hours
- **Graduate Electives:** 12 credit hours
- **Research/Dissertation Requirements**: 35 credit hours

Total Credit Hour Requirement: 60

*Students entering with a relevant master's degree may transfer up to 24 credits of approved graduate coursework toward their 30-credit elective requirement, subject to grade requirements (B or higher) and committee approval.

Requirements:

1. Pre-admission faculty contact: Students must establish communication with potential advisors during the application process and have a signed Graduate Advisor Acceptance Form.

2. Committee formation and program planning: Students must assemble their Graduate Advisory Committee and submit an approved program of study by the conclusion of their first year.

3. Research prospectus approval: A written research prospectus must receive approval from the Graduate Advisory Committee.

4. Annual progress reporting: Following prospectus approval, students must provide annual research progress reports to their doctoral committee.

5. Comprehensive examinations and admission to candidacy: A student may be admitted into PhD candidacy when both written and oral comprehensive examinations have been successfully completed.

6. Dissertation completion and defense: Students must complete a written dissertation and successfully defend it at a public research seminar. This final milestone must be achieved by the end of the sixth year for students entering with an M.S. degree, or by the end of the seventh year for students entering with only a baccalaureate degree.

Degree Requirements

Type
Completion Requirement

Core Coursework (13 credit hours)

Complete ALL of the following Courses:

- BIOL7210 - Scientific Leadership and Management
- BIOL7991 - Dissertation Research Seminar
- BIOL7010 - Integrative Biology

AND

Statistical Analysis or Experimental Design (3 Credits)

AND

Elective outside Biology Department (3 Credits)

Graduate Electives (12 credit hours)

• BIOL 5000/6000/7000 level courses approved by Graduate Advisory Committee

• Maximum of 9 credit hours may be at the 5000-level

Research and Dissertation (35 Credits Minimum)

Earn at least 35 credits from the following:

- BIOL7990 - Research and Dissertation

Additional Information

Information And Additional Notes

Requirements:

1. Pre-admission faculty contact: Students must establish communication with potential advisors during the application process and have a signed Graduate Advisor Acceptance Form.

2. Committee formation and program planning: Students must assemble their Graduate Advisory Committee and submit an approved program of study by the conclusion of their first year.

3. Research prospectus approval: A written research prospectus must receive approval from the Graduate Advisory Committee.

4. Annual progress reporting: Following prospectus approval, students must provide annual research progress reports to their doctoral committee.

5. Comprehensive examinations and admission to candidacy: A student may be admitted into PhD candidacy when both written and oral comprehensive examinations have been successfully completed.

6. Dissertation completion and defense: Students must complete a written dissertation and successfully defend it at a public research seminar. This final milestone must be achieved by the end of the sixth year for students entering with an M.S. degree, or by the end of the seventh year for students entering with only a baccalaureate degree.

ID-CER - Instructional Design

Program Overview

Program Long Title

Instructional Design

College/School

Education and Human Sciences

Department(s)

Curriculum and Instruction

Catalog Full Description

The Instructional Design certificate program is designed to enhance current concentrations within Curriculum and Instruction and create new pathways for faculty, administration, and students in this rapidly expanding field. This certificate is open to all graduate students at Tennessee Tech.

The certificate consists of a four-course sequence that is developed to support and prepare professionals for the challenges and opportunities of instructional design and virtual teaching principles. The certificate has a defined set of four core courses for a total of 12 hours.

Total Certificate Requires 12 credit hours.

Admission Requirements

Admission Requirements

Students will apply for the graduate certificate following the admissions requirements for the Master of Arts in Curriculum and Instruction as outlined below:

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Instructional Design certificate program is designed to enhance current concentrations within Curriculum and Instruction and create new pathways for faculty, administration, and students in this rapidly expanding field. This certificate is open to all graduate students at Tennessee Tech.

- **Core Required Courses**: 12 hours
- **TOTAL**: 12 hours

Certificate Requirements

Type
Completion Requirement

Certificate Requirements (12 Hours)

Complete ALL of the following Courses:

- CUED6430 - Design Studies: Production of Instructional Materials
- CUED6450 - Immersive Technologies for Instructional Design
- CUED7510 - Instructional Design Foundations
- CUED7540 - Applied Instructional Design/Learning Analytics

ISE-MS - Industrial and Systems Engineering, M.S.

Program Overview

Program Long Title
Industrial and Systems Engineering, M.S.

College/School
Engineering

Department(s)
Manufact/Indust Systems Engr.

Catalog Full Description
The Department of General and Industrial Engineering offers advanced studies leading to the degree of Master of Science in Industrial and Systems Engineering (MSISE). The goals of the MSISE program are to prepare graduates with breadth across the discipline of industrial and systems engineering (ISE) and depth in data analysis and modeling. This focus serves the needs of Tennessee employers for both industrial and systems engineers and operations research analysts, occupations that have been identified as “in-demand” in Tennessee.

The program accommodates students who have earned a Bachelor of Science in any accredited engineering degree program or a similar course of study. The MSISE degree prepares graduates to apply advanced engineering data analysis and modeling skills and knowledge in industry or in advanced studies towards the Ph.D. The MSISE degree program can be pursued with either a thesis option or a non-thesis option. Faculty advisors assist graduate students in developing individual programs of study depending on their career goals and research interests. The student's advisory committee assists the student in the development and execution of the program of study and monitors and evaluates the student's work towards the degree.

Degree Requirement for Thesis Option

- Core Coursework: 10 credit hours
- Thesis Research: 6-9 credit hours
- Elective Coursework: 12-15 credit hours

Total Credit Hours: 31

Degree Requirements for Project Option

- Core Coursework: 10 credit hours
- Project Coursework: 3 credit hours
- Elective Coursework: 18 credit hours

Total Credit Hours: 31

Admission Requirements

Admission Requirements
Admission to the MSISE program is open to anyone holding an accredited bachelor's or master's degree in engineering, computer science, or a closely related discipline. The admission decision is based on the criteria below.

- Undergraduate GPA: at least 3.0 on a 4.0 scale.
- Bachelor’s degree: a bachelor’s degree from an accredited program in engineering, computer science, or related area, all requiring mathematics at least through differential and integral calculus and including an upper division (junior or senior level) course in probability and statistics.
- Letters of Recommendation: two letters of recommendation that demonstrate strong evidence for success in the graduate program.

- Resume and Statement of Purpose: Current resume and a one-page (350-500 words) statement of purpose. The resume and statement of purpose may include professional considerations not specifically mentioned in the three previous criteria, such as relevant work experience, certifications, or test scores. In particular, the following information should be included in the resume or statement of purpose if applicable:

- Work experience in engineering or a technological field. Such experience may include cooperative education or internship experiences.

- Successful completion of the Fundamentals of Engineering examination.

- Work training or experience in the use of probability and/or statistics, such as Six Sigma, Statistical Process Control, or other similar topics.

- Post-graduate course completion at a university.

The resume and statement of purpose provide an opportunity for holistic consideration of the admission criteria. In addition to applicants who are BSISE graduates, the MSISE program has been developed to accommodate BS or MS graduates in other engineering disciplines and in related fields. Work experience or coursework may have provided these applicants with technical knowledge and skills that can help to compensate for deficiencies in the first three criteria, e.g., the absence of an upper division course in probability and statistics. Thus, the MSISE Coordinator will take into consideration additional information provided in the resume or statement of purpose.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The thesis option is designed for those students who want a research experience and for those who might want to pursue a doctoral degree after graduation.

Degree Requirement for Thesis Option

- Core Coursework: 10 credit hours
- Thesis Research: 6-9 credit hours
- Elective Coursework: 12-15 credit hours

Total Credit Hours: 31

The project option is designed for students who are interested in applying industrial and systems engineering methods as a practitioner in industry or other organizations after graduation or in their current job.

Degree Requirements for Project Option

- Core Coursework: 10 credit hours
- Project Coursework: 3 credit hours
- Elective Coursework: 18 credit hours

Total Credit Hours: 31

Degree Requirements

Type
Completion Requirement

Thesis Option

Complete ALL of the following Courses:
- EMGT6300 - Decision Analysis
- ENGR6200 - Statistical Inference for Engr
- ISE6920 - ISE Professionalism
- ISE6990 - Research and Thesis
- EMGT6100 - Intro/Engineering Management
  OR EMGT6210 - Project Management for Engineers
- ISE5710 - Econ Eval of Engr Projects (Inactive)
  OR ISE6800 - Sys Engr & Life-Cycle Econ (Inactive)
- ISE5410 - Systems Simulation
  OR ISE6460 - Optimization Methods
- ISE5500 - Reliability & Quality Engr (Inactive)
  OR ME5450 - Design for Manufacturability
  OR
- MATH6070 - App Linear Stat Meth I
  OR MATH6170 - Experimental Design I

*ISE 5710 is required if the student's undergraduate curriculum did not include a course in Engineering Economics.

**A maximum of nine credits of 5000-level coursework is permitted.

Project Option

Complete ALL of the following Courses:
- EMGT6300 - Decision Analysis
- ENGR6200 - Statistical Inference for Engr
- ISE6500 - Human Factors in Sys Design (Inactive)
- ISE6920 - ISE Professionalism (Inactive)
- ISE6950 - Professional Project (Inactive)
- EMGT6100 - Intro/Engineering Management
  OR EMGT6210 - Project Management for Engineers
- ISE5710 - Econ Eval of Engr Projects (Inactive)
  OR ISE6800 - Sys Engr & Life-Cycle Econ (Inactive)
- ISE5410 - Systems Simulation
  OR ISE6970 - Special Topics in ISE (Inactive)
- ISE5500 - Reliability and Quality Engineering
  OR ME5450 - Design for Manufacturability
  OR ISE6970 - Special Topics in ISE (Inactive)
- MATH6070 - App Linear Stat Meth I
  OR MATH6080 - App Linear Stat Meth II
  OR MATH6170 - Experimental Design I
  OR MATH6180 - Experimental Design II

*ISE 5710 is required if the student's undergraduate curriculum did not include a course in Engineering Economics.

**A maximum of nine credits of 5000-level coursework is permitted.

LDT-MA - Learning Design and Technology, M.A.

Program Overview

Program Long Title
Learning Design and Technology, M.A.

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The MA in Learning Design and Technology is an innovative program designed to prepare professionals in face-to-face and virtual positions in instructional design, virtual learning, and computer science education. Areas of the curriculum have flexibility that extends to the candidate's professional expertise. Emphasis is placed on leveraging technologies to enhance learning outcomes, including the use of multimedia, simulations, XR, and online platforms.

Total Degree Requirements (33 Hours)

Core Concentration Coursework*	27 hours
Research Coursework	6 hours
Total Degree Requirements	33 hours

Admission Requirements

Admission Requirements

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:

- Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75.
- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:

International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The MA in Learning Design and Technology is an innovative program designed to prepare professionals in face-to-face and virtual positions in instructional design, virtual learning, and computer science education. Areas of the curriculum have flexibility that extends to the candidate's professional expertise. Emphasis is placed on leveraging technologies to enhance learning outcomes, including the use of multimedia, simulations, XR, and online platforms.

Total Degree Requirements (33 Hours)

Core Concentration Coursework*	27 hours
Research Coursework	6 hours
Total Degree Requirements	33 hours

MA in Learning Design and Technology

Type
Completion Requirement

Core Concentration Coursework (27 Hours)

Complete ALL of the following Courses:

- CSED6000 - Digital Literacy & Computing
- CSED6010 - Computational Thinking Concepts and Curriculum Design
- CSED6020 - Programming Fundamentals for Educators **OR** CUED7520 - Teaching and Learning Online
- CSED6030 - Computer Science Instructional Methods **OR** CUED6440 - Emerging Technologies in Education
- FOED6820 - Applied Educational Assessment
- CUED6430 - Design Studies: Production of Instructional Materials
- CUED6450 - Immersive Technologies for Instructional Design
- CUED7510 - Instructional Design Foundations
- CUED7540 - Applied Instructional Design/Learning Analytics

Note: Core Concentration Courses listed below meet the Computer Science Education Optional Embedded Certificate requirements.

- CSED 6000 - Digital Literacy and Computing Cr. 3.
- CSED 6010 - Programming Fundamentals and Computational Thinking for Educators Cr. 3.
- CSED 6020 - Computer Science Concepts and Design Cr. 3.
- CSED 6030 - Computer Science Instructional Methods Cr. 3.

Note: Core Concentration Courses listed below meet the Instructional Design Embedded Certificate Requirements:

- CUED 6430 - Design Studio: Production of Instructional Materials Cr. 3.
- CUED 6450 - Immersive Technologies for Teaching and Learning Cr. 3.
- CUED 7510 - Instructional Design Foundations Cr. 3.
- CUED 7540 - Applied Instructional Design and Learning Analytics Credit 3.

Research Coursework (6 Hours)

Complete ALL of the following Courses:

- CUED6300 - Quantitative Education Research **OR** CUED6310 - Qualitative Research in Education
- CUED6305 - Quantitative Problems in Curriculum **OR** CUED6315 - Qualitative Problems in Curriculum

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TN Tech undergraduates to accumulate up to six (6) credit hours of graduate coursework, to satisfy both undergraduate and graduate degree requirements, while still pursuing their undergraduate degree. The coursework would enable an efficient graduate program transition with the potential for accelerated completion. The courses must be taken at Tennessee Tech University.

The minimum admission requirements for participating in the C&I Fast Track Program are:

• Enrolled as a TN Tech undergraduate at the Junior level.
• Overall GPA of at least 3.0 or better
• Recommendation from the student's undergraduate advisor
• Course approval from C&I graduate faculty or graduate faculty advisor.

Program participants should consult with their undergraduate and/or future graduate advisor regarding appropriate graduate courses to take and must earn a minimum grade of "B" in the graduate courses in order to apply them to their M.A. program of study. Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee admission to the Fast Track program. Students who meet the above minimum admission requirements must apply to the Department for admission to the Fast Track program. The department's graduate committee will review the application and make a decision for approval.

In addition to the requirements for admission to the Fast-track BS/MA program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MACC-MAC - Accountancy, M.Acc.

Program Overview

Program Long Title

Accountancy, M.Acc.

College/School

Business

Department(s)

Accounting

Catalog Full Description

The 30-credit hour MAcc program was designed with two options, a 1-year track and a 2-year track. Due to the importance of completing the degree in a timely fashion and time limits established by the Tennessee Society of CPA's for completing the CPA Exam, it is important that the discipline of either a 1-year or 2-year timeline be imposed on applicants. The disciplined time-line will also contribute to lowering the attrition rate and increasing the likelihood of graduation.

The MAcc is a 100% online program with limited face-to-face interaction. While the coursework will be online, there is a provision in the program for two residency experiences. These residency experiences will be required components of the program and, combined with the online pre-work, will count for 1 credit hour each. Students will attend two live weekend sessions that will include group project work, group presentations, seminars and networking opportunities. The residency experiences will also provide vital “touch points” in the program that will allow students and faculty to communicate in a one-on-one exchange of thoughts and ideas related to the program and course materials.

The following are the MAcc degree requirements:

- **Core Required Courses:** 24 hours
- **Advisor Approved Electives:** 6 hours
- **Total Degree Requirement:** 30 hours

Departmental Mission

The Department holds separate AACSB Accounting Accreditation. Accordingly, our mission is "to graduate students characterized by a commitment to professional competence, ethical conduct, excellent communication skills, and critical thinking." Toward that end, we strive to provide students access to advanced knowledge in the field of accounting and we emphasize the importance of life-long learning and continuing professional development.

We strive to adhere to a set of values that embraces our commitment to a standard of excellence. Those values include:
• Integrity
• Professionalism
• Diversity of Thought
• Excellence
• Team Collaboration

The purposes of the MAcc Program at TTU include delivery of: (1) strong, masters-level education that provides accounting students with advanced academic knowledge, requisite professional skills, and a relevant, high-quality pathway to the profession and associated certifications", (2) high-quality programming that facilitates students' development and growth as successful, ethical business leaders, (3) appropriate graduate-level degree programming to meet the needs of aspiring professional accountants and their prospective employers that is not currently available to TTU accounting graduates, and (4) using online and associated technologies to increase Tennesseans' access to graduate accounting education.

Admission Requirements

Admission Requirements

Tennessee Tech's AACSB-accredited Master of Accountancy (MAcc) program maintains an admission process that considers applicants' total academic and work-life achievements. The Master of Accountancy does not require the GMAT or GRE for admission to the program.

Pre-Requisites: Applicants must have an undergraduate degree in business with a major in Accounting (or the equivalent) from an accredited school or university, or be in their final semester of undergraduate coursework. Accounting major equivalency can be achieved by presenting evidence of successful completion of two courses in Intermediate Financial Accounting and one course each in Cost Accounting, Taxation, and Auditing.

While it is not required, it is helpful if students have successfully completed at least one undergraduate course in business or accounting analytics.

To Apply:
Complete the application, and upload the following required documents:
• Official transcripts from all institutions where you took classes or received a degree. You may provide copies of transcripts to speed the application process, but official transcripts will be needed to finalize admission.
• A current resume. Make sure your resume contains dates for all work experience and degrees received.

Factors that may be considered in the admission decision are:
• Undergraduate GPA*,
• Professional or Accounting Work Experience or Internships,
• Other Graduate Degrees and Relevant Achievements, and
• Significant leadership roles.

*Although not required, a strong score on the GMAT can be a positive factor in an admission decision for students with a GPA that is below our average GPA. We recommend that you consider preparing for and taking the GMAT if your undergraduate GPA is below 3.0.

Note: Annually, the MAcc seeks to fill a cohort of 25-30 students each Fall term. Admission can be competitive. We advise you to submit your completed application and all required documentation as early as possible. We begin reviewing applications on January 31 each year.

Visit the Graduate Admissions Calendar for a complete list of application deadlines. MAcc admission is open to qualified students with a bachelor's degree and a major in accounting or coursework in accounting that gives students an academic foundation to be admitted into the MAcc program. The degree and coursework must be from an accredited institution. Consideration is given to the applicant's work experience and other activities that demonstrate potential for successful completion of the program.

Applications for admission are accepted for all semesters. Candidate screening and admission decisions will be made as applications are completed by the applicants.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The following are the MAcc degree requirements:

- Core Required Courses: 24 hours
- Advisor Approved Electives: 6 hours
- Total Degree Requirements: 30 hours
- The MAcc program is designed to provide two pathways for students to take in order to meet the student's academic goals and to fulfill the requirements of the CPA examination timelines.

Core Course Requirement (24 hours)

Type
Completion Requirement

Core Course Requirements

Complete ALL of the following Courses:

- ACCT5250 - Government, Not-For-Profit, and Healthcare Accounting
- ACCT6210 - Tax Management for Entities
- ACCT6220 - Auditing and Attestation
- ACCT6231 - Professional Certification I - Discipline Exam
- ACCT6232 - Prof Certification: Audit
- ACCT6233 - Professional Cert: Regulation
- ACCT6234 - Prof Cert: Finan Acct/Rprting
- ACCT6240 - Ethics & the Code of Prof Cond
- ACCT6260 - Tax Mgt/Flow-thru Ent/Strategy
- ACCT6270 - Advanced Financial Accounting
- ACCT6281 - Professional Development I
- ACCT6282 - Professional Development II
- ACCT6290 - Essential Tech for Accountants

Advisor Approved Electives (6 hours)

Type
Completion Requirement

Advisor Approved Electives (6 hours)

Students may use any 5000-level or 6000-level course offered by the College of Business, except 6010, which cannot be used as a MAcc elective.

The advisor will approve six hours of elective credit.

1-Year Completion Pathway

Type
Completion Requirement

Fall Term

The MAcc program is designed to provide two pathways for students to take in order to meet the student's academic goals and to fulfill the requirements of the CPA examination timelines.

Complete ALL of the following Courses:

- ACCT6260 - Tax Mgt/Flow-thru Ent/Strategy
- ACCT6270 - Advanced Financial Accounting
- ACCT6232 - Prof Certification: Audit
- ACCT6233 - Professional Cert: Regulation
- ACCT6282 - Professional Development II

Plus one graduate elective (3 credit hours)

Spring Term

Complete ALL of the following Courses:

- ACCT6260 - Tax Mgt/Flow-thru Ent/Strategy
- ACCT6270 - Advanced Financial Accounting
- ACCT6232 - Prof Certification: Audit
- ACCT6233 - Professional Cert: Regulation
- ACCT6282 - Professional Development II

Plus one graduate elective (3 credit hours)

Summer Term

Complete ALL of the following Courses:

- ACCT5250 - Government, Not-For-Profit, and Healthcare Accounting
- ACCT6290 - Essential Tech for Accountants
- ACCT6234 - Prof Cert: Finan Acct/Rprting

2-Year Completion Pathway

Type
Completion Requirement

1st Fall Term

Complete ALL of the following Courses:
- ACCT6210 - Tax Management for Entities

Graduate Elective (3 credit hours)

1st Spring Term

Complete ALL of the following Courses:
- ACCT6260 - Tax Mgt/Flow-thru Ent/Strategy

Graduate Elective Credit (3 credit hours)

1st Summer Term

Complete ALL of the following Courses:
- ACCT6290 - Essential Tech for Accountants
- ACCT6233 - Professional Cert: Regulation

2nd Fall Term

Complete ALL of the following Courses:
- ACCT6220 - Auditing and Attestation
- ACCT6231 - Professional Certification I - Discipline Exam
- ACCT6240 - Ethics & the Code of Prof Cond
- ACCT6281 - Professional Development I

2nd Spring Term

Complete ALL of the following Courses:
- ACCT6270 - Advanced Financial Accounting
- ACCT6232 - Prof Certification: Audit
- ACCT6282 - Professional Development II

2nd Summer Term

Complete ALL of the following Courses:
- ACCT5250 - Government, Not-For-Profit, and Healthcare Accounting
- ACCT6234 - Prof Cert: Finan Acct/Rprting

Additional Information

Information And Additional Notes

Academic Requirements and Expectations

Minimum Retention Requirements

A MAcc student is required to maintain a cumulative grade average of at least B (3.0) in all courses taken for degree purposes. Not more than six (6) hours of credit below a B grade will be allowed. If a grade of C is assigned in a MAcc-related course, the course may be repeated. However, both the original grade and the grade for repeat will be counted in the cumulative average. A MAcc degree course may be repeated only one (1) time and no more than two (2) MAcc degree courses may be repeated. In addition, any student receiving a D or an F in a MAcc degree course shall be dismissed from the program.

Probation for Unsatisfactory Performance

A graduate student is required to maintain a cumulative grade point average of at least "B" on all graduate courses taken as a graduate student. When a student's cumulative average on courses falls below 3.0, but not less than 2.00, the student will be placed on probation. If the cumulative average falls below 2.00, the student will be dismissed.

If the term average, on all courses presented as part of the hours required for graduation, during any semester is less than 2.00, the student's record will be reviewed and the student may be placed on probation.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Generally, the Fast Track program allows selected undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MAcc program. Participation does not change the requirements for the student's undergraduate or MAcc program. Currently, the MAcc only allows students to Fast Track the six hours of electives in the MAcc program. Accounting courses (designated with the ACCT prefix) are not allowed to be Fast Tracked.

Minimum requirements for admission are:

• 90 hours of undergraduate work in an AACSB accredited College of Business and successful completion of the required prerequisites
• Recommendation of a faculty member in the student's major
• Overall GPA of 3.2 and GPA of 3.2 in the student's major
• Program participants should consult with their future MAcc advisor regarding appropriate graduate courses to take during their junior/senior year.
• All requirements for full admission to Graduate School must be met upon graduation.
• Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee acceptance into the MAcc Fast Track program or the MAcc program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

MATH-MS - Mathematics, M.S.

Program Overview

Program Long Title
Mathematics, M.S.

College/School
Arts and Sciences

Department(s)
Mathematics

Catalog Full Description
The Department of Mathematics offers a comprehensive program leading to a Master of Science degree in Mathematics. The program of study provides suitable preparation for further study at the doctoral level or for a career in teaching, government, or industry. The moderate size of the program encourages faculty-student interaction and allows the student an opportunity to tailor a program of study based on individual background, interest, and goals. Graduate students attend a weekly Graduate Seminar and develop teaching skills through participation in the weekly Teaching Seminar. For more information, please contact the Mathematics Department at (931) 372-3441, or visit the departmental web page at http://www.tntech.edu/math .

Requirements for the M.S. degree in Mathematics are:

Thesis Option

The M.S. in Mathematics with a Thesis option is a 30 hour degree program. Degree requirements include:

- **Core Required Coursework:** 6 hours
- **Advisor Approved Electives:** 6 hours
- **Advisor Approved Sequence:** 12 hours
- **Research and Thesis Requirement:** 6 hours
- **Total Degree Requirements:** 30 hours

At least 21 of the above credit hours must be at the 6000 level.

Non-Thesis Option

The M.S. in Mathematics in the Non-Thesis program is a 33 hour program. Degree requirements are as follows:

- **Core Course Requirements:** 6 hours
- **Advisor Approved Electives:** 6 hours
- **Advisor Approved Sequence:** 18 hours
- **Non-Thesis Project:** 3 hours
- **Total Degree Requirements:** 33 hours

Admission Requirements

Admission Requirements
As a necessary condition to be admitted to the Mathematics Graduate Program with Full Standing, and applicant must meet the following minimum requirements:

1. successful completion (at least a C or better) or at least one semester-long undergraduate course in abstract algebra (MATH 4010 or equivalent)
2. successful completion (at least a C or better) of at least one semester-long undergraduate courses in real analysis (MATH 4110 or equivalent)
3. an overall undergraduate QPA of at least 2.5 (based on a 4.0 scale)
4. at least 3 letters of recommendation each indicating an expectation for success in a graduate mathematics program
5. (international students only) a TOEFL score of at least 4.0 or an IELTS score of at least 6.0 or the attainment of level18 in the FLS international Intensive ESL program
6. Demonstrated potential for success in a graduate mathematics program by attaining **at least one** of the following
    - an overall undergraduate mathematics QPA of at least 3.5 (based on a 4.0 scale);
    - at least a 140 verbal score, 150 quantitative score, and 3.0 analytical writing score on the GRE General Examination
    - at least a 700 on the GRE Subject Test in Mathematics

It should be understood that fulfilling the above minimum requirements is not sufficient to guarantee that an applicant will be admitted with full standing .A student may be admitted to the Mathematics Graduate Program with Provisional Standing if one or more of the above requirements are not met, assuming that the student has an overall undergraduate QPA of at least 2.25 (based on a 4.0 scale) and at least 3 letters of recommendation each indicating and expectation for success in a graduate mathematics program. Recommendations for admission (with Full or Provisional Standing) are made by the Mathematics Department Chairperson in consultation with the Mathematics Graduate Committee based upon an analysis of the applicant's mathematical background and potential for success in the Mathematics Graduate Program. As student in Provisional Standing may be reclassified to Full Standing once the student has satisfied the appropriate requirements detailed in the admission letter.

For the sake of evaluation for an assistantship, applicants are highly encouraged to take both the GRE General Examination and the GRE Subject Test in Mathematics and submit their scores with the application.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Requirements for the M.S. degree in Mathematics are:

Thesis Option
The M.S. in Mathematics with a Thesis option is a 30 hour degree program. Degree requirements include:

- Core Required Coursework: 6 hours
- Advisor Approved Electives: 6 hours
- Advisor Approved Sequence: 12 hours
- Research and Thesis Requirement: 6 hours
- Total Degree Requirements: 30 hours

At least 21 of the above credit hours must be at the 6000 level.

Non-Thesis Option
The M.S. in Mathematics in the Non-Thesis program is a 33 hour program. Degree requirements are as follows:

- Core Course Requirements: 6 hours
- Advisor Approved Electives: 6 hours
- Advisor Approved Sequence: 18 hours
- Non-Thesis Project: 3 hours
- Total Degree Requirements: 33 hours

A comprehensive examination on two (2) of the three (3) one-year approved sequences used to fulfill the 18 credit hour requirement. The selection of the two (2) areas of examination will be left to the graduate student and to the graduate student's advisor, subject to the approval of the student's Graduate Advisory Committee. The exam will test both the student's knowledge of the subject areas and ability to independently solve problems and prove theorems.

At least 24 of the 33 hours will be at the 6000 level.

Thesis Option

Type
Completion Requirement

Core Required Coursework (6 hours)

Complete ALL of the following Courses:
- MATH6110 - Abstract Algebra I
- MATH6010 - Functional Analysis I
  OR MATH6410 - Real Analysis 1
  OR MATH6310 - Complex Analysis I

Advisor Approved Electives (6 hours)

Selection of appropriate MATH advisor approved courses (MATH 5XXX-MATH 6XXX) will be made in consultation with the student's advisory committee and/or graduate coordinator.

Advisor Approved Sequence (12 hours)

A student may complete a sequence by taking any two of the six courses listed below. A student who takes four of of the six courses listed is considered to have completed two sequences.

Complete at least 2 of the following courses:
- MATH6510 - Finite Difference Solut
- MATH6520 - Fin Element Sol-Diff Equ
- MATH6810 - Partial Differ Equations
- MATH6530 - Integral Equations/Apps
- MATH6540 - Calc Of Variation & Appl
- MATH6610 - Operational Mathematics

Additional Sequences

Student may choose additional sequences from the following list:

Complete ANY of the following Courses:
- MATH6010 - Functional Analysis I
  AND MATH6020 - Functional Analysis II
- MATH6070 - App Linear Stat Meth I
  AND MATH6080 - App Linear Stat Meth II
- MATH6110 - Abstract Algebra I
  AND MATH6120 - Abstract Algebra II
- MATH6170 - Experimental Design I
  AND MATH6180 - Experimental Design II
- MATH6210 - Topology I
  AND MATH6220 - Topology II
- MATH6240 - Reprsntatns/Chrctrs-Groups I
  AND MATH6250 - Reprsntatns/Chrctrs-Groups II
- MATH6310 - Complex Analysis I
  AND MATH6320 - Complex Analysis II
- MATH6370 - Prob & Stochast Proc I
  AND MATH6380 - Prob & Stocast Proc II
- MATH6410 - Real Analysis 1
  AND MATH6420 - Real Analysis II
- MATH6450 - Adv Theory of Computation
  AND MATH6460 - Comp Meth/Graphics & Modeling
- MATH6910 - Special Topics in Math
  AND MATH6920 - Special Topics in Math

Research and Thesis Requirement (6 hours)

Complete ALL of the following Courses:
- MATH6990 - Research & Thesis

Non-Thesis Option (33 hours)

Type
Completion Requirement

Core Required Coursework (6 hours)

Complete ALL of the following Courses:
- MATH6110 - Abstract Algebra I
- MATH6010 - Functional Analysis I
  OR MATH6410 - Real Analysis 1
  OR MATH6310 - Complex Analysis I

Advisor Approved Electives (6 hours).

Selection of appropriate MATH advisor approved courses (MATH5XXX-MATH6XXX) will be made in consultation with the student's advisory committee and/or graduate coordinator.

Advisor Approved Electives (6 hours).

Advisor Approved Sequence (18 hours total)

A student may complete a sequence by taking any two of the six courses listed below. A student who takes four of the six courses listed is considered to have completed two sequences.

Complete at least 2 of the following courses:
- MATH6510 - Finite Difference Solut
- MATH6520 - Fin Element Sol-Diff Equ
- MATH6810 - Partial Differ Equations
- MATH6530 - Integral Equations/Apps
- MATH6540 - Calc Of Variation & Appl
- MATH6610 - Operational Mathematics

Student may choose additional sequences from the following list:

Complete ANY of the following Courses:
- MATH6010 - Functional Analysis I
  AND MATH6020 - Functional Analysis II
- MATH6070 - App Linear Stat Meth I
  AND MATH6080 - App Linear Stat Meth II
- MATH6110 - Abstract Algebra I
  AND MATH6120 - Abstract Algebra II
- MATH6170 - Experimental Design I
  AND MATH6180 - Experimental Design II
- MATH6210 - Topology I
  AND MATH6220 - Topology II
- MATH6240 - Reprsntatns/Chrctrs-Groups I
  AND MATH6250 - Reprsntatns/Chrctrs-Groups II
- MATH6310 - Complex Analysis I
  AND MATH6320 - Complex Analysis II
- MATH6370 - Prob & Stochast Proc I
  AND MATH6380 - Prob & Stocast Proc II
- MATH6410 - Real Analysis 1
  AND MATH6420 - Real Analysis II
- MATH6450 - Adv Theory of Computation
  AND MATH6460 - Comp Meth/Graphics & Modeling
- MATH6910 - Special Topics in Math
  AND MATH6920 - Special Topics in Math

Additional Comments:
A comprehensive examination on two (2) of the three (3) one-year approved sequences used to fulfill the 18 credit hour requirement. The selection of the two (2) areas of examination will be left to the graduate student and to the graduate student's advisor, subject to the approval of the student's Graduate Advisory Committee. The exam will test both the student's knowledge of the subject areas and ability to independently solve problems and prove theorems. At least 24 of the 33 hours will be at the 6000 level.

Non-Thesis Project (3 hours)

Type
Completion Requirement

Non-Thesis Project Course

Complete ALL of the following Courses:

- MATH6991 - Research & Ind Study

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable promising undergraduate mathematics students at Tennessee Tech to begin their pursuit of a Master's degree in Mathematics during their senior year. Upon admission to the program, up to six (6) hours of graduate mathematics courses taken during the senior year can be used to satisfy both undergraduate and graduate degree requirements (see restrictions below).

To be eligible, a student must have an overall GPA of at least 3.25 and have a B or better in all upper division Mathematics courses. Students who meet these minimum requirements may apply to the Mathematics Department for admission to the Fast Track program. The departments graduate committee will review the application and make a decision for approval.

The student must earn a grade of B or better in the graduate courses which are double-counted to have the credit apply toward the Master's degree. In addition, the following classes are not eligible for Fast Track credit: Math 5010, 5110, 5470, 5530, 5510, 5610, and 5620.

Participation in the Fast Track program does not guarantee admission to the Mathematics graduate program. The student must meet all requirements for admission to the graduate program upon graduation and must complete the Fast Track program successfully will be given strong consideration for both admission and financial assistance in the graduate program.

MBA-MBA - Business Administration, M.B.A.

Program Overview

Program Long Title
Business Administration, M.B.A.

College/School
Business

Department(s)
Business

Catalog Full Description
The Tennessee Tech MBA is fully online, 33-credit hour program accredited by AACSB International-the highest attainable level of accreditation worldwide. Designed with working professionals in mind, the program offers maximum flexibility: complete your degree in as little as one year or progress at your own pace.

The online learning environment is highly interactive and incorporates case discussions, teamwork, simulations, and other active-learning approaches. MBA courses make a strong connection between academic subjects and the practical issues facing managers in today's globally competitive, high tech, and analytically focused business environment.

MBA Program

MBA Program Website

The MBA program requires no prerequisites and is designed for college graduates regardless of major. In all organizations, career success and advancement require knowledge of finance, marketing, accounting, information technology, analytics, and management. In addition, the teamwork, leadership, technological and communication skills along with the networking opportunities provided throughout the MBA experience add value for full time students, working professionals, and their current employers.

Students may choose a general MBA or specialize by earning a graduate certificate in a high-demand field such as Banking and Financial Services, Cybersecurity Management and Analytics, or Healthcare Informatics- all within the 33-hour framework (36 hours for non-business majors pursing a certificate). Full-time students may complete the program in one (1) calendar year. Part-time students take courses at their preferred pace, often taking only one or two courses per term. Students have up to six (6) years to complete the program.

The MBA core consists of eight 3-hour common courses:

- Economics 6000 (ECON6000) - Managerial Economics
- Accounting 6010 (ACCT6010) - Accounting Information for Management Decisions
- Finance 6020 (FIN6020) - Financial Management
- Economics 6050 (ECON6050) - Analytical Decision Making
- Marketing 6100 (MKT6100) - Strategic Marketing
- Business Management 6200 (BMGT6200) - Organizational Leadership
- Decision Sciences 6220 (DS6220) - Management of Information Technology
- Business Management 6950 (BMGT6950) - Business Strategy

The core courses provide technical and contextual knowledge as they develop students' managerial competence. In addition to assuring a working knowledge of primary business functions, these career-relevant courses provide opportunities to work individually and in teams through a variety of case studies, simulations, and research projects. The nine(9) credit hours of electives are used to develop special competencies of interest to the student.

MBA degree requirements

- **Core Required Courses:** 24 hours
- **Advisor Approved Electives:** 9 hours
- **Total:** 33 hours

Certificate Tracks

Interested students may add an industry-focused *Graduate Certificate*. There are four certificate options:

-Agribusiness
-Banking & Financial Services.
-Cyber Management & Analytics
-Healthcare Informatics

For more information on electives that comprise each certificate, see Industry-Focused Certificates on the MBA website.

Admission Requirements

Admission Requirements

Tennessee Tech's AACSB-accredited Master of Business Administration (MBA) program maintains an admission process that considers the applicants total academic and work-life achievements. Admission is open to qualified students with a bachelor's degree from a regionally accredited institution. No GMAT or GRE test score is required to apply. Applications are accepted for fall, spring, and summer semester admission. Application deadlines are listed on the University's Graduate Studies webpage.

To Apply: Visit the online application portal located on the College of Graduate Studies webpage, create an account, complete the application, and upload the following required documents:

1. A current resume, containing dates for all work experience and degrees received.
2. Official transcripts from all institutions where classes were taken and/or a degree received. Factors that may be considered in the admission decision are:

3. Undergraduate GPA

4. Professional Work Experience

5. Graduate Degrees and Relevant Achievements:

- Professional work experience is post-undergraduate professional or military experience and should be described on the applicants resume.
- Graduate degrees (e.g., MD, JD, MS, MA, PharmD, etc.) should be documented on the applicant's transcript(s) and denoted on the resume.
- Timely application is important. Applicants are advised to submit their completed application and all required documentation early to be given full consideration for upcoming semesters. Visit the Graduate Admissions Calendar for a complete list of application deadlines.
- Important to note for international applicants: Additional information is required by Graduate Studies for international students (see Graduate Studies website). A score of 4.0 on the TOEFL or a band score of 6.0 on the IELTS is required for all students whose native language is other than English. Students must be proficient in the use of word processing, spreadsheet, and presentation software including the integration of all three of the above.

Academic Background

The Tennessee Tech MBA welcomes applicants from all academic majors. An undergraduate business degree or prerequisite business courses are not required to be admitted to the program.

Standing Upon Admission

Students may be admitted in Full Standing or with Provisional Standing. Admission in Full gives students the greatest flexibility in taking MBA courses. Students admitted provisionally must take ECON 6050 within the first nine (9) hours of their program and maintain a 3.0 GPA on the first nine (9) hours of MBA core content completed. Upon meeting these requirements, the provisional student will be moved to Full Standing.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

As many as nine (9) semester hours may be transferred from other AACSB accredited schools. Credit will not be allowed for courses taken more than five (5) years prior to application to Tennessee Tech. Enrollment in required common courses requires the approval of the MBA Director. All core courses should be complete prior to any 6000-level work.

MBA

- Core Required Courses: 24 hours
- Advisor Approved Electives: 9 hours
- Total: 33 hours

Degree Requirements

Type
Completion Requirement

Core Required Courses

Complete ALL of the following Courses:

- ACCT6010 - Acct Info for Mgmt Decisions
- BMGT6200 - Organizational Leadership
- BMGT6950 - Business Strategy
- DS6220 - Management of Info Technology
- ECON6050 - Analytical Decision Making
- ECON6000 - Managerial Economics
- FIN6020 - Financial Management
- MKT6100 - Strategic Marketing

Total Hours for Core Courses: 24

Elective Courses (9 hours)

Any 5000-level or 6000-level course offered by the College of Business (ACCT, BMGT, DS, ECON, FIN, LAW, MKT or MBA) may be accepted to fulfill the nine hours of elective credit required of the MBA degree.

Additional Comments:

Total hours: 33

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast Track allows pre-approved TTU undergraduates to enroll for up to six (6) hours of graduate courses that will count at both the undergraduate and graduate level prior to formal admission to the MBA program. Once admitted to Fast Track, the student will be allowed to enroll in appropriate MBA courses in the senior

year with the consent of the student's undergraduate advisor and the director of Graduate Business Programs. Participation does not change the requirements for the students undergraduate or MBA program.

Admission to Fast-Track

Minimum requirements for admission are:

- 90 hours of undergraduate work or senior standing and successful completion of any required prerequisites
- Overall GPA of 3.2 and GPA of 3.2 in the students major
- Program participants should consult with their future MBA advisor regarding appropriate graduate courses to take during their senior year.
- All requirements for full admission to Graduate School must be met upon graduation.
- Students who do not receive a grade of B or better in the fast-tracked course will be advised to withdraw from the Fast Track program and complete their B.S. degree as normal.

Fulfilling the above minimum requirements does not guarantee acceptance into the Master of Business Administration Fast Track program or the MBA program. Students who meet the above minimum requirements must consult with the College of Business for eligibility and acceptance.

ME-MS - Mechanical Engineering, M.S.

Program Overview

Program Long Title

Mechanical Engineering, M.S.

College/School

Engineering

Department(s)

Mechanical & Nuclear Engr.

Catalog Full Description

The Mechanical and Nuclear Engineering Department offers courses and research projects leading to the Master of Science Degree in Mechanical Engineering and enthusiastically participates in the Doctor of Philosophy Degree offered in the College for those doctoral students focusing their work in the mechanical engineering area. The MS program is administered by the Department and the Ph.D. program is administered by the Associate Dean of Engineering for Graduate Studies and Research. Both degrees are research-oriented.

Participation in graduate education is consistent with the Mechanical and Nuclear Engineering Department’s goals and objectives which are:

- to provide quality instructional programs and research experiences in mechanical engineering subjects that are at a level of sophistication compatible with professional norms;
- to maintain a competent, dynamic faculty, expert in the various facets of mechanical engineering that strive to motivate the student and that practices effective educational techniques;
- and to provide instructional and research facilities, equipped with up-to-date apparatus, which are conducive to the education of mechanical engineering graduate students.

A graduate student may customize his/her graduate courses in one of several areas subject to the approval of his/her graduate advisory committee. Areas of specialty include energy systems (including alternate and renewable), robotics and intelligent systems, solid mechanics and materials, thermal fluid science, vehicle systems (including hybrid and autonomous), vibrations/acoustics/dynamics and control, and advanced manufacturing. Graduate course offerings are offered each semester to meet the needs of the graduate students. Graduate students may carry out their research for their thesis/dissertation in any one of the aforementioned areas under the supervision of a faculty member, having expertise in that area, who is also a member of the graduate faculty. Individual programs of study are developed for each student depending on his/her career goals and thesis research interest. Thesis, non-thesis and on-line non-thesis programs are offered to meet the needs of our students.

Faculty advisors assist graduate students in the development of their individual programs of study depending on their career goals and thesis/dissertation interests. The advisor chairs the student’s advisory committee. The student’s advisory committee guides the student through degree progression and is responsible for monitoring the student’s work to complete the degree requirement.

The research and graduate education within the College are enhanced by four Centers of Excellence: the Center for Energy Systems Research (CESR); the Center for Manufacturing Research (CMR); Cybersecurity Education, Research and Outreach Center (CEROC); and the Center for the Management, Utilization, and Protection of Water Resources (WC). The Mechanical and Nuclear Engineering Department is highly involved with the first two. Faculty actively interact with the Power and Manufacturing Centers in seeking external funding for research. The Centers complement the faculty efforts by supporting graduate students and via administrative support. The interaction involves a strengthening through sharing of resources and personnel.

Master's Program Degree Options

There are two options to consider:

- Thesis option
  - This option requires 30 credit hours, which includes 22-24 credit hours of course work and 6-8 credit hours of thesis research.
  - Funding from the MNE Department may be available through the department in the form of Graduate Teaching Assistantships (GTA). Graduate Research Assistantships (GRA) are awarded by individual faculty from their research grants/contracts.
  - The time it takes to complete the M.S. degree depends on the thesis project, the advisor, and the student's motivation and work ethic.
- Non-thesis option
  - This option requires 31 credit hours, which includes 30 hours of course work and 1 hour Introduction to Graduate Research course.
  - There is no funding available through the department for this option.
  - With proper planning, well-motivated students can complete the M.S. non-thesis degree in three semesters.

Admission Requirements

Admission Requirements

An applicant for admission to the MS in Mechanical Engineering is expected to have earned a BS degree from an approved program, or its equivalent. Admission is decided based on a multi-parameter criterion that can include the following items to be evaluated by the department:

- undergraduate GPA of at least 3.0 on a 4.0 scale,
- GRE General Test (GRE) scores with Quantitative greater than or equal to 50%; Verbal greater than or equal to 33%; Analytical Writing greater than or equal to 33%. Students with BS degrees in related fields from TTU are not required to take the GRE.
- Three (3) letters of recommendation that demonstrate strong evidence for success in the graduate program.
- Availability of appropriate faculty to serve as research advisor(s).
- Participation in undergraduate research.
- Post-BS degree professional experience relevant to planned degree of study.
- Publications in peer reviewed journals and/or award-winning presentations in technical conferences.
- International students must score at least 4.0 on the TOEFL or a minimum base score of 6.0 on the IELTS.

Based on the level of satisfaction of the above criterion, the department will either recommend admission to Full Standing, Provisional Standing, or Special Standing, or deny admission. Standing status may be changed to Full Standing after the student satisfies the requirements specified by the department at the time of admission.

The MNE Department has a Departmental Admissions Committee who reviews and evaluates each application individually for unique merits and for the applicant's potential success in the graduate program and makes admission recommendation to the appropriate administrator. Students who do not meet the minimum admission requirements or whose potential for success is not evident from the application may be considered for provisional standing. These students will be reclassified to full standing once they satisfy the conditions specified in the provisional admission statement. Occasionally, highly qualified students not having their BS degree in mechanical engineering may be admitted on a provisional basis with the stipulation of satisfactorily completing a specified set of undergraduate courses before achieving full standing. If admitted in provisional standing at master's level, the student must remove all deficiencies and apply for reclassification to full standing prior to the completion of 15 graduate hours.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Departmental Degree Requirements

The graduate program in the Mechanical and Nuclear Engineering Department offers a thesis, non-thesis, and fully on-line non-thesis option to meet the needs of the student.

MS in Mechanical Engineering

Type

Completion Requirement

Master of Science with Thesis Option

An MS program of study with thesis option requires a minimum of 22 credit hours of graduate course work (24 credit hour maximum), as specified in the student's approved Program of Study, and either six (6) or eight (8) hours of thesis credit, for a total of 30 credit hours, completed under the supervision of the graduate thesis advisor. No more than nine (9) credit hours of the 22 credit hour total may be at the 5000-level. A minimum GPA of 3.0 is required both to graduate and to remain in good standing in the program. The thesis requirement includes research, the findings of which must be submitted in writing and are subject to the policies and satisfaction of the Graduate School Office and the advisory committee. In addition, each student must pass a comprehensive exam which includes a defense of his/her research work before the advisory committee and submit the defense results to the College of Graduate Studies.

- **Advisor Approved Electives*, including** ME6910 Intro to Graduate Research **(1 credit hour):** 22-24 hours
- **Research and Thesis,** ME6990 Research & Thesis**:** 6-8 hours
- **Total Degree Requirements:** 30 hours

* Selection of appropriate courses (ME, CSC, ECE, MATH 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Complete ALL of the following Courses:

- ME6910 - Intro to Graduate Research
- ME6990 - Research & Thesis

Master of Science with On-line Non-Thesis Option

An MS program of study with non-thesis option requires a minimum of 31 credit hours of graduate course work, as specified in the student's approved program of study. This program is offered on-line. The program of study shall include 30 semester hours of formal, graded coursework, and one (1) semester hour ME 6910 Introduction to Graduate Research. At least seventy percent of the credit to be counted toward the MS degree (21 hours) must be at the 6000 level or above.

- **Advisor Approved Electives*:** 30 hours

- **Non-Thesis Course, ME 6910:** 1 hour
- **Total Degree Requirements:** 31 hours

*Selection of appropriate courses (ME, ECE, CSC, MATH 5000, 6000, 7000 level) will be made in consultation with the student's advisory committee and/or the graduate coordinator.

Complete ALL of the following Courses:

- ME6910 - Intro to Graduate Research

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Fast Track program is designed to enable TTU ME undergraduates to accumulate up to six (6) credit hours of graduate coursework while still pursuing their undergraduate degree and to transition to the graduate program smoothly, with accelerated completion. Up to six (6) hours of graduate coursework, exclusive of directed study, taken during the student's senior year can be used to satisfy both undergraduate and graduate degree requirements (double counted). These courses must be taken at Tennessee Tech University and must be approved as appropriate substitutions in the undergraduate curriculum for senior ME electives (AOE courses). There is no obligation to complete the master's degree if the student's plans change. Students who plan to work on a master's thesis are strongly encouraged to meet with faculty during their junior and senior year to get a head start on the research for their master's degree.

Fast Track Requirements to Apply

- Student must be an ME undergraduate student in their junior or senior year.
- Student must have obtained a grade point average (GPA) of 3.25 or higher for all undergraduate courses.
- Meeting the minimum requirements does not guarantee admission to the BS/MS graduate program. To receive full consideration, all applications to the BS/MS program should be received two weeks before the start of the registration period.

Fast Track Program Rules and Requirements

To maintain eligibility for the BS/MS Fast Track program after being accepted, students must:

- Maintain a 3.25 GPA or higher (ME courses) at the undergraduate level. Students who graduate with their BS degree with less than a 3.25GPAwill not be eligible for the BS/MS program.
- Students must complete their BS degree, and then matriculate into the MS program. Students cannot graduate with a BS and MS at the same time.
- Start in the MS program immediately after graduating with their BS degree. The only exception to this is summer semester. Students who graduate in the spring are allowed to take summer semester off and start in the fall semester.

MGEI-CER - Managerial Environmental Informatics Certificate, Environmental Studies

Program Overview

Program Long Title

Managerial Environmental Informatics Certificate, Environmental Studies

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

There are two 15-credit hour graduate certificates in the Professional Science Master's degree program within the Environmental Informatics concentration: (a) Managerial Environmental Informatics and (b) Technical Environmental Informatics.

Students may earn one or both certificates as stand-alone graduate certificates, or as embedded within the 33-credit hour PSM degree program.

Total Credit Hours for Certificate: 15

Admission Requirements

Admission Requirements

Requirements for Admission

- Undergraduate degree in science, technology, engineering, or mathematics discipline* with GPA of at least 3.0 on a 4.0 scale **OR** a total score of at least 300 on verbal and quantitative portions of the GRE General Test along with a score of at least 3.5 on the analytical writing portion of the test.
- Official transcripts from all previously-attended colleges or universities
- Three (3) letters of recommendation from faculty familiar with the academic ability of the applicant.
- International applicants must also meet the English Language Requirement by providing test results on **one** (**1**) of the following:
  - TOEFL--minimum score 4.0
  - IELTS--minimum base score of 6.0

*Applicants that have baccalaureate degrees in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The School of Environmental Studies offers a 15 credit-hour graduate certificate in the field of Managerial Environmental Informatics. This certificate will appeal to working professionals in government agencies and industry. Students may receive the certificate as part of their 33 credit-hour PSM degree or may receive the certificate as a standalone program. All students apply and are admitted to the PSM Environmental Informatics degree program

Managerial Environmental Informatics 15 credit hours

Type
Completion Requirement

Complete ALL of the following Courses:

- GEOG5410 - Remote Sensing
  OR GEOG5650 - Environmental Apps of GIS
- EVSS6010 - Environmental Social Policy
  OR ESS6000 - Environmental Law
- BMGT6200 - Organizational Leadership
  OR PRST6110 - Leadership and Communication
  OR PRST6310 - Leadership in Organization
  OR PRST6500 - Foundations of Leadership

Directed Elective Approved List

Complete at least 1 of the following courses:

- ACCT6010 - Acct Info for Mgmt Decisions
- ECON5200 - Environmental Economics
- EVS7900 - Sci Writing/Grantsmanship
- MKT6100 - Strategic Marketing
- PRST6040 - Human Resources Mgmt
- PRST6100 - Prof Environmntl Issues/Ethics
- PRST6700 - Conflict Management and Negotiation
- PRST6920 - Diversity in the Workplace

Graduate-level statistics course from Approved List

Complete at least 1 of the following courses:

- AGBE5210 - Ag & Biological Statistics
- BIOL5220 - Biostatistics
- BIOL6140 - Fish & Wildlife Biometrics
- PSY6310 - Educational Statistics
- MATH6070 - App Linear Stat Meth I
- MATH6080 - App Linear Stat Meth II
- MATH6170 - Experimental Design I
- MATH6180 - Experimental Design II
- MATH6470 - Environmental Statistics
- PRST6600 - Statistical Analysis
- SOC5920 - Data Analysis & Mgmt

Additional Comments:

Total Credit Hours for Certificate: 15

MPS-CCOM - Professional Studies, Corporate Communication Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Corporate Communication Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) is designed to affordably and flexibly meet the needs of working adults who are not generally served by traditional methods. This unique program is taught by professors who are best suited to help you develop the skills necessary to excel in your career field and this program is offered completely online and available 24/7.

This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas:

Corporate Communication prepares you to excel in the fast-paced professional environment that surrounds the communication field. This program strengthens the corporate leader in developing organizational and interpersonal communication skills and leadership skills.

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 18 hours
- **Total Degree Requirement:** 30 hours

Admission Requirements

Admission Requirements
For Full Standing

The minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
   - a resume;
   - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
   - two letters of professional reference.
   - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements, and professional awards/recognitions.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Although not required, and applicant with less than a 3.0 (but higher than2.5) and with little professional experience (less than 5 years) may consider taking the GRE. A strong score on the GRE can be a positive factor in an admission decision that is below our required GPA and work experience requirement. We recommend that you consider preparing for and taking the GRE if your undergraduate GPA is below 3.0 and you do not have 5 years of experience. GRE information is available on the ETS website.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The MPS in Corporate Communication prepares the professional to excel in the field of corporate communication. This concentration provides a focus on the areas of communication including organizational and interpersonal communication and leadership.

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 18 hours
- **Total Degree Requirement:** 30 hours

MPS in Corporate Communication

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
  OR COMM6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project
  OR COMM6998 - Professional Project
  OR JOUR6998 - Professional Project

Required Concentration Courses (choose 18 hours)

Complete at least 6 of the following courses:

- COMM5420 - Adv Organizational Comm
- COMM5430 - Interpersonal Communication
- COMM5620 - Advanced Public Speaking
- COMM5630 - Persuasion
- COMM6200 - Communication Strategies for Virtual Teams
- COMM6120 - Managing Communication
  OR PRST6120 - Managing Communication
- COMM6610 - Special Topics
- COMM6700 - Conflict Mgmt & Negotiation
  OR PRST6700 - Conflict Management and Negotiation
- COMM6960 - Digital Audience Behavior Analysis and Insights
  OR PRST6960 - Digital Audience Behavior Analysis and Insights
- COMM6970 - Media Theory and Effects (Inactive)
  OR PRST6970 - Media Theory and Effects
- COMM6980 - Strategic Communication
  OR PRST6980 - Strategic Communication
- COMM6990 - Design Strategies and Promotions
  OR PRST6990 - Design Strategies and Promotions
- JOUR6870 - Social Media Campaigns
- PRST6200 - Globalization & the Profession
- PRST6720 - Crisis Response Management
- PRST6751 - Global Terrorism-Pndmc/Epidmcs
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full-Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five- and seven-week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast Track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation

does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast Track program applies to all MPS concentrations.

Once admitted to the MPS Fast Track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast Track program. The MPS Fast Track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast Track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in the undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: In addition to the requirements for admission to the MPS Fast Track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-HCA - Professional Studies, Healthcare Administration Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Healthcare Administration Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas: Healthcare Administration provides the healthcare professional with leadership and strategic management tools to lead and serve one of the nation's largest service industries. The focus of the program is to provide the healthcare professional with the opportunity to develop important skills in healthcare, leadership, finance, informatics, research and administration in the various components of healthcare delivery systems that include hospitals, nursing homes, group medical practices, personal care homes, retirement centers, health maintenance organizations, medical sales, and insurance companies. A graduate certificate is available in Healthcare Informatics for the Healthcare Administration students.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 15 hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone en route to their degree.

Graduate Certificates
Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (15 hours) as listed in this catalog. Upon completion of the 15 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 15 hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing

The minimum admission requirements are:

1. A bachelors degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

- 3.0 grade point average in their undergraduate major course of study

- Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Although not required, and applicant with less than a 3.0 (but higher than2.5) and with little professional experience (less than 5 years) may consider taking the GRE. A strong score on the GRE can be a positive factor in an admission decision that is below our required GPA and work experience requirement. We recommend that you consider preparing for and taking the GRE if your undergraduate GPA is below 3.0 and you do not have 5 years of experience. GRE information is available on the ETS website.

Provisional Admission

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Healthcare Administration

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project

Required Concentration Courses (choose 18 hours)

Earn at least 15 credits from the following:

- PRST6200 - Globalization & the Profession
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6530 - Healthcare Systems Economics
- PRST6540 - Health Informatics
- PRST6550 - Comp-Based Dec Modlng-Hlth Adm
- PRST6560 - Bio Sciences for Hlthcr Admin
- PRST6570 - Public Health
- PRST6721 - Managing Emergency Volunteers
- PRST6751 - Global Terrorism-Pndmc/Epidmcs
- PRST6781 - Science of Contact Tracing
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6810 - Masters of Prof Studies Internships

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation

does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the students undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-HRL - Professional Studies, Human Resources Leadership Concentration, M.P.S

Program Overview

Program Long Title
Professional Studies, Human Resources Leadership Concentration, M.P.S

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Human Resources Leadership prepares you for a leadership role in the area of human resources. The interdisciplinary approach is appropriate because of the many skills and knowledge areas that are needed for success in this field.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone in route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing

The minimum admission requirements are:

1. A bachelors degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.

4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Masters degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Human Resources Leadership

Type

Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project

Required Concentration Courses (choose 15 hours)

Earn at least 15 credits from the following:

- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6310 - Leadership in Organization
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6500 - Foundations of Leadership
- PRST6700 - Conflict Management and Negotiation
- PRST6721 - Managing Emergency Volunteers
- PRST6781 - Science of Contact Tracing
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships
- PRST6910 - Employment & Human Resources
- PRST6920 - Diversity in the Workplace
- PRST6930 - Compensation and Benefits
- PRST6940 - Recruitmnt/Selectn/Retentn

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the students undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-IL - Professional Studies, Integrated Leadership Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Integrated Leadership Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Integrated Leadership prepares you to lead in today's rapidly changing professional environment. The interdisciplinary approach focuses on the areas of leadership, communication, strategic planning and assessment, organizational structure and research/data analysis.

Degree Requirements

- **Required Core Courses:** 6 hours
- **Certificate One Courses:** 12 hours
- **Certificate Two Courses:** 12 hours
- **Total Degree Requirement:** 30 hours

Graduate Certificates
Students seeking a Graduate Certificates will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12 hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing

The minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;

- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.
- Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum IBT of 71 or an approved equivalent exam and equivalent scores. International applicants with an IBT below 79 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements

Type
Completion Requirement

Core Courses 6 credit hours

Complete at least 2 of the following courses:

- PRST6100 - Prof Environmntl Issues/Ethics
- PRST6110 - Leadership and Communication
  OR COMM6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6810 - Masters of Prof Studies Internships
- PRST6998 - Professional Project
  OR COMM6998 - Professional Project
  OR JOUR6998 - Professional Project

Graduate Certificate Options

Complete at least 2 of the following programs:

- HCI2-CER - Healthcare Informatics Certificate, M.P.S.
- HRL-CER - Human Resource Leadership Certificate, M.P.S.
- PS-CER - Public Safety Certificate, M.P.S.
- SL-CER - Strategic Leadership Certificate, M.P.S.
- TD-CER - Training and Development Certificate, M.P.S.
- TESL-CER - Teaching English to Speakers of Other Languages Certificate, M.P.S.
- PMP-CER - Project Management for the Professional Certificate, M.P.S.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

MPS-MSCO - Professional Studies, Media and Strategic Communication Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Media and Strategic Communication Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Media and Strategic Communication prepares you to lead in the exciting field are of media and communication. The professional will acquire skills in the area of event planning and promotion, public relations, marketing, and other key communication areas.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 18 hours
- **Total Degree Requirement:** 30 hours

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12 hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
The minimum admission requirements are:

1. A bachelors degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study

1. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
2. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
3. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements
The Media and Strategic Communication concentration prepares you to lead in the exciting areas of event planning and programming, public relations, marketing and other strategic areas.

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 18 hours
- **Total Degree Requirement:** 30 hours

MPS in Media and Strategic Communication

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
  OR COMM6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project

OR COMM6998 - Professional Project
OR JOUR6998 - Professional Project

Required Concentration Courses (choose 18 hours)

Earn at least 18 credits from the following:

- COMM5630 - Persuasion
- COMM6200 - Communication Strategies for Virtual Teams
- COMM6610 - Special Topics
- JOUR5030 - Field Exp/Event Mgmt/Promotion
- JOUR5460 - Pub Relations-Cases/Pract
- JOUR5500 - Adv Multimedia Storytelling
- JOUR5820 - Advanced Reporting
- JOUR5830 - Feature Writing
- JOUR5843 - Special Problems (Inactive)
  OR JOUR5846 - Special Problems (Inactive)
  OR JOUR5849 - Special Problems (Inactive)
- JOUR5930 - Advanced Copy Editing
- JOUR6450 - PR Management
- JOUR6870 - Social Media Campaigns
- PRST6120 - Managing Communication
  OR COMM6120 - Managing Communication
- PRST6200 - Globalization & the Profession
- PRST6720 - Crisis Response Management
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6960 - Digital Audience Behavior Analysis and Insights
  OR COMM6960 - Digital Audience Behavior Analysis and Insights
- PRST6970 - Media Theory and Effects
  OR COMM6970 - Media Theory and Effects (Inactive)
- PRST6980 - Strategic Communication
  OR COMM6980 - Strategic Communication
- PRST6990 - Design Strategies and Promotions
  OR COMM6990 - Design Strategies and Promotions

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-PMP - Professional Studies, Project Management for the Professional Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Project Management for the Professional Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Project Management for the Professional program prepares students to meet the growing demands for project management with courses grounded in the methodologies, strategies, skills, and tactics critical for success. The program is a combination of theory and practice and accepts students from a variety of backgrounds providing professionals the opportunity to transition from one career to another. Students completing the program receive training from PMI certified instructors as well as 20+ year veterans of industry. The program does not require a calculus background.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 12 hours
- **Project Management Electives:** 6 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone in route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing, the minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements
- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

Project Management for the Professional

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project

Required Concentration Courses (choose 12 hours)

Complete ALL of the following Courses:

- PRST6820 - Intro: Project Mgmt Expec/Meth
- PRST6830 - Project Mgmt Process/Dev Strat
- PRST6840 - Project Mgmt: Schedule & Fin
- PRST6850 - PM: Risk, Assessment & Quality

Project Management Elective Courses (6 credit hours)*

Earn at least 6 credits from the following:

- PRST6860 - Proj Mgt: Conflict Mgt in Proj
- PRST6870 - Project Mgmt for IT Profession
- PRST6880 - Project Mgmt for Hlthcare Admn
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships

*In addition, any 6000-level, advisor-approved PRST course can be applied as an elective.

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-PS - Professional Studies, Public Safety Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Public Safety Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Public Safety provides the public safety professional with leadership and strategic management tools to lead and serve in one of the nation's growing professions.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone in route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing, the minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements
- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Public Safety

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:
- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods

- PRST6998 - Professional Project

Required Concentration Courses (choose 15 hours)

Earn at least 15 credits from the following:

- PRST6200 - Globalization & the Profession
- PRST6700 - Conflict Management and Negotiation
- PRST6710 - Risk Assessment & Prevention
- PRST6720 - Crisis Response Management
- PRST6721 - Managing Emergency Volunteers
- PRST6730 - Leadership in Public Safety
  OR PRST6500 - Foundations of Leadership
- PRST6740 - Diversity in Public Safety
  OR PRST6920 - Diversity in the Workplace
- PRST6750 - Preparedness and Mitigation
- PRST6751 - Global Terrorism-Pndmc/Epidmcs
- PRST6760 - Funding in Public Safety
- PRST6780 - Intelligence Gathering
- PRST6781 - Science of Contact Tracing
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6911 - Constitution & Society

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-SL - Professional Studies, Strategic Leadership Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Strategic Leadership Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Strategic Leadership prepares you to lead in today's rapidly changing professional environment. The interdisciplinary approach focuses on the areas of leadership, communication, strategic planning and assessment, organizational structure and research/data analysis.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone in route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing, the minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements
- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Strategic Leadership

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:
- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods

- PRST6998 - Professional Project

Required Concentration Courses (choose 15 hours)

Earn at least 15 credits from the following:

- ELPA6560 - Small Group Leadership
- JOUR6450 - PR Management
- LDSP6000 - Current Issues in Leadership
- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6310 - Leadership in Organization
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6500 - Foundations of Leadership
- PRST6700 - Conflict Management and Negotiation
- PRST6721 - Managing Emergency Volunteers
- PRST6730 - Leadership in Public Safety
- PRST6770 - Computer-Based Decision Model
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-TD - Professional Studies, Training and Development Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Training and Development Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Training and Development equips leaders for the growing and evolving field of workplace learning and performance. The program will prepare you to manage, deliver and assess on-site performance-based training, instructional design, and address the needs of human resource managers and other professionals who are increasingly relying on technology to deliver workforce education.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone en route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing, the minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Degree Requirements
- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Training and Development

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:
- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods

- PRST6998 - Professional Project

Required Concentration Courses (choose 15 hours)

Earn at least 15 credits from the following:

- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6400 - Instructional Dsgn/Trning-Devl
- PRST6410 - Evaluation of Learning
- PRST6420 - Organizational Needs Analysis
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6430 - Adv Instr Design/Training & Dvlpment
- PRST6440 - Teaching On-Line
- PRST6450 - Computer-Based Tech/E-Training
- PRST6470 - Facilitation of Learning
- PRST6700 - Conflict Management and Negotiation
- PRST6710 - Risk Assessment & Prevention
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships
- PRST6910 - Employment & Human Resources
- PRST6920 - Diversity in the Workplace

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the students junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast-track program applies to all MPS concentrations.

Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in undergraduate major;
- Recommendation from the student's undergraduate advisor

Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

MPS-TESL - Professional Studies, Teaching English to Speakers of Other Languages (TESOL) Concentration, M.P.S.

Program Overview

Program Long Title
Professional Studies, Teaching English to Speakers of Other Languages (TESOL) Concentration, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Master of Professional Studies (MPS) is designed to affordably and flexibly meet the needs of working adults who are not generally served by traditional methods. This unique program is taught by professors who are best suited to help you develop the skills necessary to excel in your career field and this program is offered completely online and available 24/7.

The Master of Professional Studies (MPS) - This graduate professional studies degree consists of 30 hours of interdisciplinary coursework. This degree is available in several concentration areas and offers students the chance to complete a graduate certificate within each of the concentration areas.

Teaching English to Speakers of Other Languages (TESOL) prepares you to meet an ongoing demand for both initial preparation and continuing education for individuals who plan to teach or a currently teaching English as a second/foreign language in various educational settings.

Degree Requirements

- **Required Core Courses:** 12 hours
- **Required Concentration Courses:** 15 hours
- **Advisor Guided Elective:** 3 hours
- **Total Degree Requirement:** 30 hours

In addition, the MPS program offers a 12-hour Graduate Certificate within each concentration area allowing students to achieve an additional milestone in route to their degree.

Graduate Certificates

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

Admission Requirements

Admission Requirements
For Full Standing, the minimum admission requirements are:

1. A bachelor's degree from an accredited institution
2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale

And, applicants must meet **one** of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio. The portfolio is to include:
    - a resume;
    - a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
    - two (2) sealed letters of professional reference.
    - Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements, and professional awards/recognitions. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree.

Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration.

Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Required Core Courses: 12 hours
- Required Concentration Courses: 15 hours
- Advisor Guided Elective: 3 hours
- Total Degree Requirement: 30 hours

MPS in Teaching English to Speakers of Other Languages (TESOL)

Type
Completion Requirement

Required Core Courses (12 hours)

Complete ALL of the following Courses:

- PRST6100 - Prof Environmntl Issues/Ethics
  OR PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown
- PRST6110 - Leadership and Communication
- PRST6300 - Research Methods
- PRST6998 - Professional Project

Required Concentration Courses (choose 15 hours)

Earn at least 15 credits from the following:

- CUED6010 - Curriculum Development & Evaluation
- CUED6440 - Emerging Technologies in Education
- CUED6920 - Topics
- ESLP5200 - ESL Assmnt: Reading & Writing
- ENGL5511 - Intro/Descriptive Linguistics
- ENGL5531 - Grammar and Language
- PRST6200 - Globalization & the Profession
- PRST6330 - Interntl Iss/EDU Policy-Pract
- PRST6790 - Special Topics
- PRST6791 - Special Topics
- PRST6792 - Special Topics
- PRST6793 - Special Topics
- PRST6794 - Special Topics
- PRST6795 - Special Topics
- PRST6796 - Special Topics
- PRST6797 - Special Topics
- PRST6798 - Special Topics
- PRST6799 - Special Topics
- CUED6100 - Instructional Strategies

Advisor Guided Elective (3 hours)

Any PRST 6000 level course or course approved by advisor

Additional Comments:

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Additional Information

Information And Additional Notes

Full-Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five- and seven-week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast Track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study. The MPS Fast Track program applies to all MPS concentrations.

Once admitted to the MPS Fast Track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of B in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast Track program. The MPS Fast Track program is open to all undergraduate majors who meet the following admissions requirements:

- Fast Track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;
- Overall undergraduate GPA of 3.0 or better;
- GPA of 3.25 in the undergraduate major;
- Recommendation from the student's undergraduate advisor
-

Note: In addition to the requirements for admission to the MPS Fast Track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

NEDU-CER - Nursing, Post Graduate Certificate for Nursing Education

Program Overview

Program Long Title
Nursing, Post Graduate Certificate for Nursing Education

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
The Nursing Education Certificate program provides a formal program of study for masters prepared nurses interested in obtaining a credential allowing them to teach. The program provides the content necessary to teach nursing students in a specific area of nursing. Once students complete the certificate, they will be eligible to sit for the national certification exam in this area. This certificate is the optimal way for those already holding a masters degree and desiring this specialization to gain marketability without having to complete a second master's degree.

One of the contributing factors for the national nursing shortage is a deficit in qualified nursing faculty to support nursing programs. This is an issue at every level of nursing. In addition, health care facilities are seeking nurse educators to maintain clinical education expectations for nursing staff in their facilities. Providing an opportunity for nurses who currently hold a Master’s of Science of Nursing degree to gain formal education and certification as a Nurse Educator is a positive move in promoting nursing education in both the classroom and clinical setting.

This 16-credit hour post graduate certificate can be completed in 3 semesters and students will be enrolled in content courses with current MSN Nursing Education majors.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Certificate is 16 credit hours.

Admission Requirements

Admission Requirements
- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Resume or CV with three (3) professional references with appropriate contact information.
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Certificate is 16 credit hours.

Degree Requirements

Type
Completion Requirement

Required Coursework Total Credit Hours: 16

Complete ALL of the following Courses:
- NURS6204 - Curriculum Design/Ed Theory
- NURS6205 - Eval Methods in Nursing Edu
- NURS6207 - Clinical Focus-Practicum
- NURS6209 - Nursing Education Practicum
- NURS6210 - Innovative Teaching Strategies
- NURS6211 - Trends in Healthcare Mgmt
- NURS6212 - Preparation for Certification

Additional Information

Information And Additional Notes
Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
    - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
    - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
    - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
    - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.

- Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
- An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

NUNP-AGNP - Nursing Practice, Adult-Gerontology Acute Care Nurse Practitioner Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title

Nursing Practice, Adult-Gerontology Acute Care Nurse Practitioner Concentration, DNP (TTU-ETSU)

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The ETSU College of Nursing and TTU School of Nursing Joint Program currently offers six concentrations within the degree: Adult/Gerontology Acute Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, Pediatric Nurse Practitioner-Primary Care, Psychiatric/Mental Health Nurse Practitioner, and Women’s Health Care Nurse Practitioner.

The focus of the Adult-Gerontology Acute Care Nurse Practitioner is to provide healthcare from adolescence to older adults in hospitals and clinic settings focusing on management of clients across acute care settings in collaboration with other members of the healthcare team. Graduates are eligible for the Adult-Gerontology Acute Care Nurse Practitioner national certification examination. Graduates are prepared for employment in varied healthcare settings.

For application terms and deadlines please refer to the Whitson-Hester School of Nursing website.

The program requires the following credit hours to complete the degree:

BSN-DNP Degree Requirements (75 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 28 hours
- **DNP Project:** 12 hours
- **Total:** 75 hours

MSN-DNP Degree Requirements (29 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 6 hours
- **DNP Project:** 12 hours
- **Total:** 29 hours

Admission Requirements

Admission Requirements

Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;

- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of Graduate Studies or the Tennessee Tech College of Graduate Studies, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BSN-DNP Degree Requirements (75 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 28 hours
- **DNP Project:** 12 hours
- **Total:** 75 hours

MSN-DNP Degree Requirements (29 hours)*

- **Core Requirements:** 11 hours
- **Concentration:** 6 hours
- **DNP Project:** 12 hours
- **Total:** 29 hours

*If you are an MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

BSN-DNP Degree Requirements (75 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (35 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5009 - Advanced Health Assessment Throughout the Life Span
- NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum
- NRSE5016 - Adv Pathophysiology
- NRSE5018 - Adv Clinical Pharmacology
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (28 hours)

Complete ALL of the following Courses:

- NRSE5604 - Adv Patho/Clin Reas I (Inactive)
- NRSE5608 - Adv Patho/Clin Reas II
- NRSE5610 - Diag Interpret/Thera Mod (Inactive)
- NRSE5612 - Acute Care Pharm
- NRSE5613 - Acute Disease Mgmt Pr I
- NRSE5614 - Acute Disease Mgmt Pr II
- NRSE5616 - Internship/Acute Care NP Pract
- NRSE5617 - Diag Interp/Thera Mod Pr
- NRSE6021 - Integ Appl Adv Prac Skil
- NRSE6022 - Strategic Pln for Health Care
- NRSE6023 - Paltve/End-of-Life Care&APN
- NRSE6024 - Adv Concept in Pathophysiology

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (29 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (6 hours)

Complete ALL of the following Courses:

- NRSE6022 - Strategic Pln for Health Care
- NRSE6023 - Paltve/End-of-Life Care&APN
- NRSE6024 - Adv Concept in Pathophysiology

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than "B," s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an "I" grade must be submitted by the instructor of record to (and approved by) the home school's graduate school Dean before the allotted time expires. An "I" grade not completed within the one year time frame will be converted to an "F."

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home school's Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below "B."

NUNP-FNP - Nursing Practice, Family Nurse Practitioner Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title
Nursing Practice, Family Nurse Practitioner Concentration, DNP (TTU-ETSU)

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The College of Nursing currently offers four concentrations within the degree: Adult/Gerontology Primary Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, and Psychiatric/Mental Health Nurse Practitioner.

The focus of the Family Nurse Practitioner concentration is patient centered quality care including common and acute illnesses while emphasizing quality of care and health outcomes. The patient population for this concentration is across the lifespan. Graduates will be eligible for the Family Nurse Practitioner National Certification examination. The Family Nurse Practitioner works in collaboration with other members of the healthcare team. Graduates are prepared for employment in varied healthcare settings.

BSN-DNP Degree Requirements (83 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 36 hours
- **DNP Project:** 12 hours
- **TOTAL:** 83 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentrations:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

**If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.*

Admission Requirements

Admission Requirements
Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;
- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of Graduate Studies or the Tennessee Tech College of Graduate Studies, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BSN-DNP Degree Requirements (83 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 36 hours
- **DNP Project:** 12 hours
- **TOTAL:** 83 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentrations:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification

BSN-DNP Degree Requirements (83 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (35 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5009 - Advanced Health Assessment Throughout the Life Span
- NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum
- NRSE5016 - Adv Pathophysiology
- NRSE5018 - Adv Clinical Pharmacology
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (36 hours)

Complete ALL of the following Courses:

- NRSE5011 - Hlth Prom, Treat, Middle Adult
- NRSE5012 - Hlth Prom Middle Prac
- NRSE5013 - Hlth Promotion Older Adults
- NRSE5014 - Hlth Pro Older Adult Practicum
- NRSE5021 - Life Span Women's Health
- NRSE5022 - Life Assess Cl Mgmt Wom Hlth
- NRSE5023 - Hlth Prom Mgmt Chld & Ad
- NRSE5024 - Hlth Pr/Di & Cl Mgt/C&A Pr
- NRSE6400 - Imprv MH Outcoms PrimCare-TTU
- NRSE6613 - Adv Nrs Rural/Undrsv Popls
- NRSE6614 - Adv Intrv DNP Prac
- Plus Advisor Approved Elective Cr. 3.

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (32 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (9 hours)

Complete ALL of the following Courses:

- NRSE6613 - Adv Nrs Rural/Undrsv Popls
- NRSE6614 - Adv Intrv DNP Prac
- Plus Advisor Approved Elective Cr. 3.

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than "B," s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course, the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an "I" grade must be submitted by the instructor of record to (and approved by) the home school's graduate school Dean before the allotted time expires. An "I" grade not completed within the one year time frame will be converted to an "F."

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home school's Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below "B."

NUNP-NHL - Nursing Practice, Nursing and Healthcare Leadership Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title

Nursing Practice, Nursing and Healthcare Leadership Concentration, DNP (TTU-ETSU)

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The College of Nursing currently offers four concentrations within the degree: Adult/Gerontology Primary Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, and Psychiatric/Mental Health Nurse Practitioner.

The focus of the Nursing and Healthcare Leadership concentration prepares the advanced nurse for multidimensional leadership within today's complex healthcare system. Coursework focuses on leadership theory and practices, legal aspects, fiscal and strategic management, quality, and policy.

BSN-DNP Degree Requirements (77 hours)

- **Core Requirements:** 23 hours
- **Concentration:** 42 hours
- **DNP Project:** 12 hours
- **TOTAL:** 77 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

**If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.*

Admission Requirements

Admission Requirements

Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;
- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of Graduate Studies or the Tennessee Tech College of Graduate Studies, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BSN-DNP Degree Requirements (77 hours)

- **Core Requirements:** 23 hours
- **Concentration:** 42 hours
- **DNP Project:** 12 hours
- **TOTAL:** 77 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

BSN-DNP Degree Requirements (77 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (23 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (42 hours)

Complete ALL of the following Courses:

- NRSE5501 - Leadership in Nurs Admin
- NRSE5502 - Exec Ldrship Practicum I
- NRSE5503 - Exec Ldrship Practicum II
- NRSE5504 - Exec Leadership Pract III-ETSU
- NRSE5510 - Organ Theory & Nurs Admin
- NRSE5520 - Fiscal Mgmt in Nurs Admin-TTU
- NRSE5530 - Hlth Care Organizations & Law
- NRSE5550 - Human Resources Mgmt
- NRSE5580 - Proj Mgmt Nrse Leaders

- NRSE5590 - Strategic Plan for Health Care
- NRSE6513 - Case Management
- NRSE6712 - Strategic Fiscal Mgmt
- NRSE6714 - Executive Leadership/Nursing
- NRSE6715 - Contemp Prob Opp Ex Ld-ETSU

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (32 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE5030 - Scholarly Writing
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (9 hours)

Complete ALL of the following Courses:

- NRSE6712 - Strategic Fiscal Mgmt
- NRSE6714 - Executive Leadership/Nursing
- NRSE6715 - Contemp Prob Opp Ex Ld-ETSU

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than "B," s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course, the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an "I" grade must be submitted by the instructor of record to (and approved by) the home school's graduate school Dean before the allotted time expires. An "I" grade not completed within the one year time frame will be converted to an "F."

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home school's Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below "B."

NUNP-PMNP - Nursing Practice, Psychiatric/ Mental Health Nurse Practitioner Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title
Nursing Practice, Psychiatric/Mental Health Nurse Practitioner Concentration, DNP (TTU-ETSU)

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The ETSU College of Nursing and TTU School of Nursing Joint Program currently offers six concentrations within the degree: Adult/Gerontology Acute Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, Pediatric Nurse Practitioner-Primary Care, Psychiatric/Mental Health Nurse Practitioner, and Women's Health Care Nurse Practitioner.

The focus of the Psychiatric/Mental Health Nurse Practitioner concentration is to prepare advanced practice nurses to provide comprehensive psychiatric-mental health care across the life span to individuals, groups and families in diverse settings. Graduates are eligible for Psychiatric Mental Health Nurse Practitioner national certification examination. The Psychiatric Mental Health Nurse Practitioner works in collaboration with other members of the healthcare team. Graduates are prepared for employment in varied healthcare settings.

For application terms and deadlines please refer to the Whitson-Hester School of Nursing website.

BSN-DNP Degree Requirements (80 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 33 hours
- **DNP Project:** 12 hours
- **TOTAL:** 80 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

Admission Requirements

Admission Requirements
Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;
- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of

Graduate Studies or the Tennessee Tech Graduate College, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BSN-DNP Degree Requirements (80 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 33 hours
- **DNP Project:** 12 hours
- **TOTAL:** 80 hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

BSN-DNP Degree Requirements (80 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (35 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5009 - Advanced Health Assessment Throughout the Life Span
- NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum
- NRSE5016 - Adv Pathophysiology
- NRSE5018 - Adv Clinical Pharmacology
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (33 hours)

Complete ALL of the following Courses:

- NRSE5303 - Psychopharmacology
- NRSE5404 - Adv Psych Fam Nsg Care I
- NRSE5408 - Adv Family Psych Nsg Care II
- NRSE5409 - Adv Fam Psych Nsg Care Prac II
- NRSE5410 - Intrpers Treatmnt Modalities
- NRSE5411 - Intrpers Trtmnt Modailt Prac
- NRSE6414 - Neurobio Psych Disor
- NRSE6415 - Mental Hlth Care Deliv Systems
- NRSE6950 - Internship Adv Nursg Practice
- NRSE5405 - Adv Fam Psych Nsg Care Prac I
- Plus Advisor Approved Elective Cr. 3.

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (32 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (9 hours)

Complete ALL of the following Courses:

- NRSE6414 - Neurobio Psych Disor
- NRSE6415 - Mental Hlth Care Deliv Systems
- Plus Advisor Approved Elective Cr. 3.

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than "B," s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course, the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an "I" grade must be submitted by the instructor of record to (and approved by) the home school's graduate school Dean before the allotted time expires. An "I" grade not completed within the one year time frame will be converted to an "F."

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home school's Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below "B."

NUNP-PNPP - Nursing Practice, Pediatric Nurse Practitioner-Primary Care Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title

Nursing Practice, Pediatric Nurse Practitioner-Primary Care Concentration, DNP (TTU-ETSU)

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The ETSU College of Nursing and TTU School of Nursing Joint Program currently offers six concentrations within the degree: Adult/Gerontology Acute Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, Pediatric Nurse Practitioner-Primary Care, Psychiatric/Mental Health Nurse Practitioner, and Women's Health Care Nurse Practitioner.

The focus of the Pediatric Nurse Practitioner-Primary Care concentration is patient centered quality care including common and acute illnesses while emphasizing quality of care and health outcomes. The patient population for this concentration is children of all ages. Graduates will be eligible for the Pediatric Nurse Practitioner-Primary Care National Certification examination. The Family Nurse Practitioner works in collaboration with other members of the healthcare team. Graduates are prepared for employment in varied healthcare settings.

For application terms and deadlines please refer to the Whitson-Hester School of Nursing website.

BSN-DNP Degree Requirements (77 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 30 hours
- **DNP Project:** 12 hours
- **TOTAL: 77** hours

MSN-DNP Degree Requirements (30 hours)

- **Core Requirements:** 11 hours
- **Concentration: 7** hours
- **DNP Project:** 12 hours
- **TOTAL:** 30 hours*

* If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

Admission Requirements

Admission Requirements

Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;

- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of Graduate Studies or the Tennessee Tech College of Graduate Studies, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional (provisional) basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BNS-DNP DEGREE REQUIREMENTS (77 hours)

- Core Requirements: 35 hours
- Concentration: 42 hours
- Optional Electives: 0-3 hours
- DNP Project: 12 hours
- TOTAL: 77 hours

MSN-DNP DEGREE REQUIREMENTS (30 hours)

- Core Requirements: 11 hours
- Concentration: 12 hours
- DNP Project: 12 hours
- TOTAL: 30 hours *

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

BSN-DNP Degree Requirements (77 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (35 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5009 - Advanced Health Assessment Throughout the Life Span
- NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum
- NRSE5016 - Adv Pathophysiology
- NRSE5018 - Adv Clinical Pharmacology
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (30 hours)

Complete ALL of the following Courses:

- NRSE5305 - Ped Pri Care I: Well Child-TTU
- NRSE5306 - Ped Pri Care II:Ep & Minor-TTU
- NRSE5311 - APN Ped Pri Care Prac I-TTU
- NRSE5312 - APN Ped Pri Care Pract II-TTU
- NRSE5314 - Pediatric Certification Prep
- NRSE5315 - Hlth Promo: Growing Child
- NRSE5316 - Chrnc Illns, Disab, Cmplx Cond
- NRSE5317 - Adv Pediatric Nurs Pract III
- NRSE6311 - Adv Fam Sys Assess & Eval-TTU
- NRSE6317 - Int Apps-Ldrshp/Ped Hlthcr Del

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (30 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (7 hours)

Complete ALL of the following Courses:

- NRSE6311 - Adv Fam Sys Assess & Eval-TTU
- NRSE6317 - Int Apps-Ldrshp/Ped Hlthcr Del

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than B, s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course, the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade 'I' indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the 'I' is assigned. The 'I' grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An 'I' grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an 'I' grade must be submitted by the instructor of record to (and approved by) the home schools graduate school Dean before the allotted time expires. An 'I' grade not completed within the one year time frame will be converted to an F.

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home schools Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below B.

NUNP-WHNP - Nursing Practice, Women's Health Care Nurse Practitioner Concentration, DNP (TTU-ETSU)

Program Overview

Program Long Title
Nursing Practice, Women's Health Care Nurse Practitioner Concentration, DNP (TTU-ETSU)

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
The Doctor of Nursing Practice program offers a terminal professional degree for those who wish to pursue or further their career as an advanced practice nurse focusing on healthcare needs of specific populations. The ETSU College of Nursing and TTU School of Nursing Joint Program currently offers six concentrations within the degree: Adult/Gerontology Acute Care Nurse Practitioner, Nursing and Healthcare Leadership, Family Nurse Practitioner, Pediatric Nurse Practitioner-Primary Care, Psychiatric/Mental Health Nurse Practitioner, and Women's Health Care Nurse Practitioner.

The focus of the Women's Health Care Nurse Practitioner concentration is to prepare advanced practice nurses to provide comprehensive health care to meet the unique needs of women in diverse settings. Graduates are eligible for Women's Health Care Nurse Practitioner national certification examination. The Women's Health Care Nurse Practitioner works in collaboration with other members of the healthcare team. Graduates are prepared for employment in varied healthcare settings.

For application terms and deadlines please refer to the Whitson-Hester School of Nursing website.

BSN-DNP Degree Requirements (79 hours)

- **Core Requirements:** 35 hours
- **Concentration:** 32 hours
- **DNP Project:** 12 hours
- **TOTAL: 79** hours

MSN-DNP Degree Requirements (32 hours)

- **Core Requirements:** 11 hours
- **Concentration:** 9 hours
- **DNP Project:** 12 hours
- **TOTAL:** 32 hours*

Admission Requirements

Admission Requirements
Admission requirements for the joint DNP program are as follows:

- a completed application with payment of nonrefundable application fee;
- official transcripts of all previous undergraduate and graduate coursework;
- a written essay.

There are different levels of admission depending upon prior credentials of applicants and whether or not they hold a BSN, MSN, or a BSN and a master's in another discipline. Additional requirements for admission to the DNP program include:

1. **BSN-DNP applicants:**
    1. A bachelor's degree in nursing is required;
    2. For international applicants, a bachelor's degree in nursing or equivalency (for BSN to DNP applicants), or a non-nursing master's degree or equivalency (for MSN to DNP applicants) from a nationally accredited nursing program or comparably recognized non-U.S. institution, with a cumulative grade point average of at least 3.0 on a 4-point scale;
2. **MSN-DNP applicants (4 options)**
    1. Certification in the selected nursing specialty for the concentration. For example: Certified FNP for FNP concentration, Certified WHNP in the WHNP concentration, etc.; or
    2. Master's in Nursing in a specialty different than the intended concentrations (WHNP, PNP, ACNP, PMHNP, FNP, Nursing and Healthcare Leadership) will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    3. Non-nursing master's with a BSN from a nationally accredited nursing program will require a longer program of study adapted to the previous Master's specialty and nursing experience; or
    4. For the MSN-DNP, Master's in Nursing with advanced practice registered nurse (APRN) certification (Nurse Practitioner, Clinical Nurse Specialist, Nurse Midwife, or Nurse Anesthetist) or master's level nursing administration/ healthcare systems leadership concentration;

NOTE: All four MSN options for the Nursing and Healthcare Leadership in Nursing concentration require at least one year of experience in a nursing administration role.

General Requirements:

1. Unencumbered licensure as a Registered Nurse in the United States and eligibility for licensure in Tennessee or equivalency for international students;
2. All applicants are required to have at least two years of full-time work experience (or equivalent) in nursing as a registered nurse;
3. All applicants will participate in an interview;
4. All applicants will be required to submit a scholarly writing sample with the application describing a problem the applicant has identified in practice that the applicant might explore in the DNP program;
5. All applicants must submit a cover letter expressing the applicant's personal goals for doctoral study; and
6. All applicants must submit a current resume or vita.

Application Form
The completed application form and fee, official transcripts of all previous undergraduate and graduate work, essay, documentation of nursing licensure in the United States, MSN certification (where applicable), letters of recommendation and resume or vita must be submitted to the ETSU School of Graduate Studies or the Tennessee Tech College of Graduate Studies, depending upon the applicant's choice. International students must also forward the additionally required documentation to the appropriate school.

Interview

The personal interview will be scheduled by the Joint DNP Admissions Committee. Factors given consideration in the admission decision include: previous grade point average (GPA), clarity of the applicant's selected problem as stated in the writing sample and during the interview, writing ability, professional work experience and achievements, professional honors and awards, interest in rural and underserved population groups, and quality of references/recommendations. The Joint DNP Admissions Committee may recommend admission of a promising applicant who has not met all the admission standards on a conditional basis.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

BSN-DNP Degree Requirements (79 hours)

- Core Requirements: 35 hours
- Concentration: 32 hours
- DNP Project: 12 hours
- TOTAL: 79 hours

MSN-DNP Degree Requirements (32 hours)

- Core Requirements: 11 hours
- Concentration: 9 hours
- DNP Project: 12 hours
- TOTAL: 32 hours*

*If you are a MSN to DNP student and you are changing your specialization, your transcript will be evaluated and you will receive an individualized program of study from the Graduate Programs Coordinator to include 5000 level courses that you will need for certification.

BSN-DNP Degree Requirements (79 hours)

Type
Completion Requirement

BSN-DNP Core Requirements (35 hours)

Complete ALL of the following Courses:

- NRSE5000 - Concep Sys for Adv Nurs Prac
- NRSE5001 - Nsg Res/Ev-based Prac-TTU
- NRSE5006 - Adv Role Development
- NRSE5009 - Advanced Health Assessment Throughout the Life Span
- NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum
- NRSE5016 - Adv Pathophysiology
- NRSE5018 - Adv Clinical Pharmacology
- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6002 - Health Policy Leadership
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

BSN-DNP Concentration Requirements (32 hours)

Complete ALL of the following Courses:

- NRSE5701 - Pharmacology Wom. Health-TTU
- NRSE5702 - Wom Hlth Adv Prac I:GYN-TTU
- NRSE5710 - Primary Care Women's Hlth-TTU
- NRSE5711 - Women's Hlth for Adv Prac IV
- NRSE5712 - Wmns Hlth/Adv Prac II:OB
- NRSE5713 - Complex Issues in Wmns Health
- NRSE5714 - Wmns Hlth for Adv Pract I
- NRSE5715 - Wmns Hlth/Adv Prac II:OB
- NRSE6210 - Dev DNP Prac in Wom Health-TTU
- NRSE6211 - Adv. Nur. Care Vuln. Wom.-TTU
- NRSE6213 - Integ. App. Women's Health-TTU
- NRSE5716 - Women's Hlth for Adv Prac III

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

MSN-DNP Degree Requirements (32 hours)

Type
Completion Requirement

MSN-DNP Core Requirements (11 hours)

Complete ALL of the following Courses:

- NRSE5030 - Scholarly Writing
- NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr
- NRSE6050 - Quality/Translation
- NRSE6713 - Systems Mgmt

MSN-DNP Concentration Requirements (9 hours)

Complete ALL of the following Courses:

- NRSE6210 - Dev DNP Prac in Wom Health-TTU
- NRSE6211 - Adv. Nur. Care Vuln. Wom.-TTU
- NRSE6213 - Integ. App. Women's Health-TTU

DNP Project (12 hours)

Complete ALL of the following Courses:

- NRSE6801 - DNP Project Identification-ETS
- NRSE6802 - DNP Project Development
- NRSE6803 - DNP Project ImplementationETSU
- NRSE6804 - DNP Project Evalua & Dissemn

Additional Information

Information And Additional Notes

Student Retention and Progression Criteria

Required GPA

The DNP graduate student, to remain in good standing, must maintain an overall grade point average of 3.0 (B) or better on all graduate work attempted. In order to graduate, students must have a minimum 3.0 GPA overall and on the program of study.

Nursing Requirement

Credit toward a degree objective will be granted for any graduate course in which a grade of A, B, or S is assigned; however, not more than three (3) hours of credit below a B grade is allowed.

If a student's grade is lower than "B," s/he may repeat a course. However, no more than one required course may be repeated. In repeating a course, the previous grade as well as the grade earned from the repeated course will be calculated into the subsequent GPA. Students will be dismissed from the program if they do not meet the requirements in this policy.

Incomplete (I) Grade

An incomplete grade ("I") indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student's control, was unable to complete the course work for which the "I" is assigned. The "I" grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An "I" grade must be removed no later than one calendar year from the time the grade is awarded. Time extension requests for removal of an "I" grade must be submitted by the instructor of record to (and approved by) the home school's graduate school Dean before the allotted time expires. An "I" grade not completed within the one year time frame will be converted to an "F."

Academic Probation: Unsatisfactory Performance

When the cumulative GPA falls below 3.0, the graduate student will be placed on academic probation for the following semester. If the student does not achieve a 3.0 cumulative grade point average at the conclusion of one probationary semester, his/her home school's Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. No students will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an average GPA of 3.0 after one semester may be subject to dismissal without a probationary term.

Dismissal

If the student does not achieve a 3.0 cumulative GPA at the conclusion of one probationary semester, the ETSU or TTU Dean of the College of Graduate Studies and appropriate college/departmental/program officials will determine whether the student should be dismissed from graduate study or continued on probation. At the end of the second probationary semester a student whose cumulative GPA is still below 3.0 will be dismissed from graduate study. A student will also be dismissed from graduate study if they receive a second grade below "B."

NURS-AGAC - Nursing, Adult Geriatric Acute Care Nurse Practitioner Concentration, M.S.N.

Program Overview

Program Long Title

Nursing, Adult Geriatric Acute Care Nurse Practitioner Concentration, M.S.N.

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The focus of the Adult-Gerontology Acute Care Nurse Practitioner is to provide healthcare from adolescence to older adults in hospitals and clinic settings focusing on management of clients across acute care settings in collaboration with other members of the healthcare team. Graduates are eligible for the Adult-Gerontology Acute Care Nurse Practitioner national certification examination. Graduates are prepared for employment in varied healthcare settings.

Coursework

- **Core Courses:** 12 credit hours
- **Advance Practice Courses:** 10 credit hours
- **Concentration Courses:** 24 credit hours
- **Total:** 46 credit hours
- T**otal Practice Contact:** 500 hours

Admission Requirements

Admission Requirements

- Applicant must possess and maintain an unencumbered license to practice as a Registered Nurse in Tennessee or the state in which the clinical assignments are completed.
- Official transcripts from previously attended colleges and/or universities.
- An earned Bachelor's degree with an overall GPA of 3.0 on a 4.0 scale.
- Successful completion of a 3 semester hour or quarter hour undergraduate level Statistics course.
    - For provisional standing admission:
        - an overall undergraduate quality point average of 2.75 - 2.99 on a 4.0 scale, upon completion of a baccalaureate degree program
- Cumulative GPA of 3.0 on a 4.0 scale for all previous graduate studies.
- TOEFL score of 4.0 if native language is not English OR IELTS score of 6.0.
- A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
- Three (3) professional references included in resume or CV.

Direct Admission

Any TTU BSN graduate with a GPA of 3.2 or higher will be admitted with the following verification:

- Current, unencumbered RN license and eligibility to practice as a Registered Nurse in the state in which clinical assignments are completed.

  Students Outside of Tennessee: Only residents of states approved by NC-SARA may apply for online courses. Please check and confirm that your state is eligible before applying.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Adult Geriatric Acute Care Nurse Practitioner (ACAGNP) is a concentration in the Master of Science in Nursing (MSN) program.

Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
  - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

BSN to MSN Degree Requirements

Type
Completion Requirement

MSN Core Courses (12 Credit Hours)

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Adult Geriatric Acute Care Nurse Practitioner Advance Practice Courses (10 Credit Hours)

Complete ALL of the following Courses:
- NURS6101 - Adv Health Assessment
- NURS6102 - Adv Health Assmt/Clinical
- NURS6103 - Adv Pathophysiology
- NURS6104 - Adv Pharmacology

Adult Geriatric Acute Care Nurse Practitioner Concentration Courses (24 Credit Hours)

Complete ALL of the following Courses:
- NURS5604 - Adv Patho/Clin Reas I
- NURS5608 - Adv Patho/Clin Reas II
- NURS5610 - Diag Interpret/Thera Mod
- NURS5612 - Acute Cr/Phamacotherapeutics
- NURS5613 - Acute Disease Mgmt Pr I
- NURS5616 - Int in Acute Care NP Practice
- NURS6021 - App - Adv Skills in Acute Care
- NURS6023 - Palliative Care & the APN

ADN or Diploma Graduate with a Bachelor’s Degree in another Discipline Accelerated Option

Type
Completion Requirement

Required Courses

The following pathway is provided allowing a registered nurse with a bachelor’s degree in another field to complete their Master’s in Nursing degree:

Complete ALL of the following Courses:
- NURS5350 - Hlth Care of Comm (RN-BSN)
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Whitson Hester School of Nursing Fast-track option will allow eligible undergraduate nursing majors to earn a maximum of six credit hours which will apply to both their undergraduate and graduate degrees at TN Tech University.

The minimum admission requirements for participating in the NURS BSN or NURN RN-BSN Fast-track program:

• Applicant must be earning a Bachelor's degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in the NURS or NURN major;

• Recommendation from the student's undergraduate advisor; and

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their graduate program of study;

After graduation with the Bachelor's degree the graduate must meet all requirements for admission to the graduate program and meeting these minimum requirements does not guarantee admission to the graduate program.

NURS-NUAD - Nursing, Nursing Administration Concentration, M.S.N.

Program Overview

Program Long Title

Nursing, Nursing Administration Concentration, M.S.N.

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Nursing Administration concentration prepares graduates for management of healthcare systems including fiscal and resource management. Graduates will be prepared for evaluation of systems outcomes for the promotion of patient safety, quality of care based on patient and staff advocacy, legal, ethical, and regulatory compliance.

Coursework

- **MSN Core:** 15 hours
- **Concentration Core:** 15 hours
- **Practicum:** 6 hours
- **Total:** 36 hours

Admission Requirements

Admission Requirements

- Applicant must possess and maintain an unencumbered license to practice as a Registered Nurse in Tennessee or the state in which the clinical assignments are completed.
- Official transcripts from previously attended colleges and/or universities.
- An earned Bachelor's degree with an overall GPA of 3.0 on a 4.0 scale.
- Successful completion of a 3 semester hour or quarter hour undergraduate level Statistics course.
    - For provisional standing admission:
        - an overall undergraduate quality point average of 2.75 - 2.99 on a 4.0 scale, upon completion of a baccalaureate degree program
- Cumulative GPA of 3.0 on a 4.0 scale for all previous graduate studies.
- TOEFL score of 4.0 if native language is not English OR IELTS score of 6.0.
- A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
- Three (3) professional references included on resume or CV.

  Direct Admission

  Any TTU BSN graduate with a GPA of 3.2 or higher will be admitted with the following verification:

- Current, unencumbered RN license and eligibility to practice as a Registered Nurse in the state in which clinical assignments are completed.

Students Outside of Tennessee: Only residents of states approved by NC-SARA may apply for online courses. Please check and confirm that your state is eligible before applying.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)
- Required GPA:
  - 1. Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - 2. In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - 3. MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - 4. If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - 5. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - 6. An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

BSN to MSN Degree Requirements

- **MSN Core:** 15 hours
- **Concentration Core:** 15 hours
- **Practicum:** 6 hours
- **Total:** 36 hours

BSN to MSN Degree Requirements

Type
Completion Requirement

MSN Core Courses (15 hours)

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development
- NURS6990 - Scholarly Synthesis

Nursing Administration Concentration Required Courses (15 Hours)

Complete ALL of the following Courses:
- NURS6301 - Nursing Administration I
- NURS6302 - Nursing Administration II
- NURS6303 - Health Care Finance
- NURS6304 - Human Res Mgmt
- NURS6305 - Quality Mgmt in Nursing & Hlth

Nursing Administration Concentration Practicum Requirements (6 hours)

Complete ALL of the following Courses:
- NURS6309 - Nursing Admin Practicum
- NURS6307 - Nursing Management Practicum

Additional Comments:

Total practice contact hours = 360

ADN or Diploma Graduate with a Bachelor’s Degree in another Discipline Accelerated Option

Type
Completion Requirement

Required Courses

The following pathway is provided allowing a registered nurse with a bachelor’s degree in another field to complete their Master’s in Nursing degree:

Complete ALL of the following Courses:
- NURS5350 - Hlth Care of Comm (RN-BSN)
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Whitson Hester School of Nursing Fast-track option will allow eligible undergraduate nursing majors to earn a maximum of six credit hours which will apply to both their undergraduate and graduate degrees at TN Tech University.

The minimum admission requirements for participating in the NURS BSN or NURN RN-BSN Fast-track program:

• Applicant must be earning a Bachelor's degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in the NURS or NURN major;

• Recommendation from the student's undergraduate advisor; and

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their graduate program of study;

After graduation with the Bachelor's degree the graduate must meet all requirements for admission to the graduate program and meeting these minimum requirements does not guarantee admission to the graduate program.

NURS-NUED - Nursing, Nursing Education Concentration, M.S.N.

Program Overview

Program Long Title

Nursing, Nursing Education Concentration, M.S.N.

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Nursing Education concentration prepares graduates for the role of nurse educator in both an academic and clinical staff development environment. Graduates are well prepared to assume the roles of faculty and clinical instructor in academic settings or nursing/staff development positions in health care facilities. Graduates are encouraged to pursue certification as a Certified Nurse Educator.

Coursework

- **MSN Core:** 15 hours
- **Concentration Core:** 20 hours
- **Practicum:** 5 hours
- **Total:** 40 hours

Admission Requirements

Admission Requirements

- Applicant must possess and maintain an unencumbered license to practice as a Registered Nurse in Tennessee or the state in which the clinical assignments are completed.
- Official transcripts from previously attended colleges and/or universities.
- An earned Bachelor's degree with an overall GPA of 3.0 on a 4.0 scale.
- Successful completion of a 3 semester hour or quarter hour undergraduate level Statistics course.
    - For provisional standing admission:
        - an overall undergraduate quality point average of 2.75 - 2.99 on a 4.0 scale, upon completion of a baccalaureate degree program
- Cumulative GPA of 3.0 on a 4.0 scale for all previous graduate studies.
- TOEFL score of 4.0 if native language is not English OR IELTS score of 6.0.
- A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
- Three (3) professional references included in resume or CV.

Direct Admission

Any TTU BSN graduate with a GPA of 3.2 or higher will be admitted with the following verification:

- Current, unencumbered RN license and eligibility to practice as a Registered Nurse in the state in which clinical assignments are completed.

Students Outside of Tennessee: Only residents of states approved by NC-SARA may apply for online courses. Please check and confirm that your state is eligible before applying.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)
- Required GPA:
  - 1. Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - 2. In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - 3. MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - 4. If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - 5. Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - 6. An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

BSN to MSN Degree Requirements

- **MSN Core:** 15 hours
- **Concentration Core:** 20 hours
- **Practicum:** 5 hours
- **Total:** 40 hours

BSN to MSN Degree Requirements

Type
Completion Requirement

MSN Core Courses (15 hours)

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development
- NURS6990 - Scholarly Synthesis

Nursing Education Concentration Required Courses (20 Hours)

Complete ALL of the following Courses:
- NURS6101 - Adv Health Assessment
- NURS5009 - Health Assessment Lifespan
- NURS6103 - Adv Pathophysiology
- NURS6104 - Adv Pharmacology
- NURS6204 - Curriculum Design/Ed Theory
- NURS6205 - Eval Methods in Nursing Edu
- NURS6210 - Innovative Teaching Strategies
- NURS6211 - Trends in Healthcare Mgmt
- NURS6212 - Preparation for Certification

Nursing Education Concentration Practicum Requirements (5 hours)

Complete ALL of the following Courses:
- NURS6309 - Nursing Admin Practicum
- NURS6307 - Nursing Management Practicum

Additional Comments:

Total practice contact hours = 360

ADN or Diploma Graduate with a Bachelor’s Degree in another Discipline Accelerated Option

Type
Completion Requirement

Required Courses

The following pathway is provided allowing a registered nurse with a bachelor’s degree in another field to complete their Master’s in Nursing degree:

Complete ALL of the following Courses:
- NURS5350 - Hlth Care of Comm (RN-BSN)
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Whitson Hester School of Nursing Fast-track option will allow eligible undergraduate nursing majors to earn a maximum of six credit hours which will apply to both their undergraduate and graduate degrees at TN Tech University.

The minimum admission requirements for participating in the NURS BSN or NURN RN-BSN Fast-track program:

• Applicant must be earning a Bachelor's degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in the NURS or NURN major;

• Recommendation from the student's undergraduate advisor; and

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their graduate program of study;

After graduation with the Bachelor's degree the graduate must meet all requirements for admission to the graduate program and meeting these minimum requirements does not guarantee admission to the graduate program.

NURS-NUFP - Nursing, Family Nurse Practitioner Concentration, M.S.N.

Program Overview

Program Long Title

Nursing, Family Nurse Practitioner Concentration, M.S.N.

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The Family Nurse Practitioner concentration prepares graduates to provide comprehensive primary health care services to individuals from infancy through adulthood. FNP's are prepared to provide holistic care to individuals and families with acute and chronic illnesses. FNP's provide preventive health services, patient education, disease management, illness prevention, and other kinds of care provided within the context of family and community. Family Nurse Practitioners are among those who, according to the Health Resources and Services Administration (HRSA), contribute significantly to providing health care to underserved populations residing in both urban and rural settings. At the completion the graduate will be qualified to sit for a national certification as an FNP which will enable them to apply for licensure in their state of clinical practice

Coursework

- **MSN Core Courses:** 12 hours
- **Advanced Practice Concentration Required Courses:** 10 hours
- **Required Concentration Courses:** 23 hours
- **Total:** 45 hours
- **Total Contact Practice Hours:** 750

Admission Requirements

Admission Requirements

- Applicant must possess and maintain an unencumbered license to practice as a Registered Nurse in Tennessee or the state in which the clinical assignments are completed.
- Official transcripts from previously attended colleges and/or universities.
- An earned Bachelor's degree with an overall GPA of 3.0 on a 4.0 scale.
- Successful completion of a 3 semester hour or quarter hour undergraduate level Statistics course.
    - For provisional standing admission:
        - an overall undergraduate quality point average of 2.75 - 2.99 on a 4.0 scale, upon completion of a baccalaureate degree program
- Cumulative GPA of 3.0 on a 4.0 scale for all previous graduate studies.
- TOEFL score of 4.0 if native language is not English OR IELTS score of 6.0.
- A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
- Three (3) professional references included in resume or CV.

Direct Admission

Any TTU BSN graduate with a GPA of 3.2 or higher will be admitted with the following verification:

- Current, unencumbered RN license and eligibility to practice as a Registered Nurse in the state in which clinical assignments are completed.

  Students Outside of Tennessee: Only residents of states approved by NC-SARA may apply for online courses. Please check and confirm that your state is eligible before applying.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

- Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)
- Required GPA:
  - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

BSN to MSN Degree Requirements

Type
Completion Requirement

MSN Core Courses (12 hours)

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Family Nurse Practitioner Concentration Advanced Practice Concentration Required Courses (10 hours)

Complete ALL of the following Courses:
- NURS6101 - Adv Health Assessment
  OR NURS5009 - Health Assessment Lifespan
- NURS6102 - Adv Health Assmt/Clinical
- NURS6103 - Adv Pathophysiology
- NURS6104 - Adv Pharmacology

Family Nurse Practitioner Concentration Required Concentration Courses (23 hours)

Complete ALL of the following Courses:
- NURS6610 - Adult Health Primary Care I
- NURS6611 - Adult Hlth Primary Care I Pra
- NURS6612 - Adult Health Primary Care II
- NURS6613 - Adult Hlth Primary Care II
- NURS6614 - Primary Care Ped & Wmn Hlth
- NURS6615 - Primary Care/Family: Practicum
- NURS6616 - Final FNP Preceptorship
- NURS6910 - Role Trans to Cert/Practice

Additional Comments:

Total practice contact hours = 750

ADN or Diploma Graduate with a Bachelor’s Degree in another Discipline Accelerated Option

Type
Completion Requirement

Required Courses

The following pathway is provided allowing a registered nurse with a bachelor’s degree in another field to complete their Master’s in Nursing degree:

Complete ALL of the following Courses:
- NURS5350 - Hlth Care of Comm (RN-BSN)
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Whitson Hester School of Nursing Fast-track option will allow eligible undergraduate nursing majors to earn a maximum of six credit hours which will apply to both their undergraduate and graduate degrees at TN Tech University.

The minimum admission requirements for participating in the NURS BSN or NURN RN-BSN Fast-track program:

• Applicant must be earning a Bachelor’s degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in the NURS or NURN major;

• Recommendation from the student's undergraduate advisor; and

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their graduate program of study;

After graduation with the Bachelor’s degree the graduate must meet all requirements for admission to the graduate program and meeting these minimum requirements does not guarantee admission to the graduate program.

NURS-PMHN - Nursing, Psychiatric/Mental Health Nurse Practitioner Concentration, M.S.N.

Program Overview

Program Long Title

Nursing, Psychiatric/Mental Health Nurse Practitioner Concentration, M.S.N.

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The focus of the Psychiatric/Mental Health Nurse Practitioner concentration is to prepare advanced practice nurses to provide comprehensive psychiatric-mental health care across the life span to individuals, groups and families in diverse settings. Graduates are eligible for Psychiatric Mental Health Nurse Practitioner national certification examination. The Psychiatric Mental Health Nurse Practitioner works in collaboration with other members of the healthcare team. Graduates are prepared for employment in varied healthcare settings.

Coursework

- **MSN Core Courses:** 14 hours
- **Advanced Practice Courses:** 10 hours
- **Required Concentration Courses:** 21 hours
- **Total:** 45 hours
- **Total Contact Practice Contact Hours:** 560

Admission Requirements

Admission Requirements

- Applicant must possess and maintain an unencumbered license to practice as a Registered Nurse in Tennessee or the state in which the clinical assignments are completed.
- Official transcripts from previously attended colleges and/or universities.
- An earned Bachelor's degree with an overall GPA of 3.0 on a 4.0 scale.
- Successful completion of a 3 semester hour or quarter hour undergraduate level Statistics course.
    - For provisional standing admission:
        - an overall undergraduate quality point average of 2.75 - 2.99 on a 4.0 scale, upon completion of a baccalaureate degree program
- Cumulative GPA of 3.0 on a 4.0 scale for all previous graduate studies.
- TOEFL score of 4.0 if native language is not English OR IELTS score of 6.0.
- A written document prepared by the applicant that includes a resume, a discussion of prior professional experience, future career goals, and reasons for pursuing graduate study.
- Three (3) professional references included in resume or CV.

Direct Admission

Any TTU BSN graduate with a GPA of 3.2 or higher will be admitted with the following verification:

- Current, unencumbered RN license and eligibility to practice as a Registered Nurse in the state in which clinical assignments are completed.

  Students Outside of Tennessee: Only residents of states approved by NC-SARA may apply for online courses. Please check and confirm that your state is eligible before applying.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Each year 1 in 4 in the United States people will experience mental illness. Those who receive mental health services report improvements in both symptoms and in quality of life, but an alarming number of both children and adults are not receiving this care. There is a growing shortage of mental health providers nationwide and the need for adequate mental health services presents an opportunity for nurses to expand their practice to meet this need. To address the increasing demand for mental services and providers throughout our state, nation and region, we are offering a Master of Science in Nursing – Psychiatric Mental Health Nurse Practitioner concentration. This concentration prepares graduates to promote mental health and to diagnose and treat mental illnesses in a variety of settings. This degree qualifies graduates to test for certification in this specialty and to then pursue licensure in their respective states as an Advanced Practice Registered Nurse.

Degree Requirements

- Follow the graduate school grading system as published in the TTU Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)
- Required GPA:
  - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

BSN to MSN Degree Requirements

- **MSN Core Courses:** 14 hours
- **Advanced Practice Courses:** 10 hours
- **Required Concentration Courses:** 21 hours
- **Total:** 45 hours
- **Total Contact Practice Contact Hours:** 560

BSN to MSN Degree Requirements

Type
Completion Requirement

MSN Core Courses (12 hours)

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Psychiatric Mental Health Nurse Practitioner Concentration Advanced Practice Concentration Required Courses (10 hours)

Complete ALL of the following Courses:
- NURS6101 - Adv Health Assessment
- NURS6102 - Adv Health Assmt/Clinical
- NURS6103 - Adv Pathophysiology
- NURS6104 - Adv Pharmacology

Psychiatric Mental Health Nurse Practitioner Concentration Required Concentration Courses (23 hours)

Complete ALL of the following Courses:
- NURS6710 - Adv Family Psy Nursing I
- NURS6711 - Adv Family Psy Nurs I: Pract
- NURS6712 - Adv Fam Psy Nursing II
- NURS6713 - Adv Fam Psy Nurs II: Pract
- NURS6714 - Adv Fam Psy Nursing III
- NURS6715 - Adv Fam Psy Nurs III: Pract
- NURS6716 - Final Psy Nurs Preceptorship
- NURS6911 - Trans to Cert/Prac-Psy Nrs Pra

Additional Comments:

Total Contact Practice Hours: 560

ADN or Diploma Graduate with a Bachelor's Degree in another Discipline Accelerated Option

Type
Completion Requirement

Required Courses

The following pathway is provided allowing a registered nurse with a bachelor's degree in another field to complete their Master's in Nursing degree:

Complete ALL of the following Courses:

- NURS5350 - Hlth Care of Comm (RN-BSN)
- NURS6000 - Theoretical Foundations
- NURS6001 - Health Care Policy
- NURS6002 - Advanced Nursing Research
- NURS6003 - Adv Role Development

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The Whitson Hester School of Nursing Fast-track option will allow eligible undergraduate nursing majors to earn a maximum of six credit hours which will apply to both their undergraduate and graduate degrees at TN Tech University.

The minimum admission requirements for participating in the NURS BSN or NURN RN-BSN Fast-track program:

• Applicant must be earning a Bachelor's degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.00 or better;

• GPA of 3.25 in the NURS or NURN major;

• Recommendation from the student's undergraduate advisor; and

• The student must earn a minimum grade of "B" in the graduate courses in order to apply them to their graduate program of study;

After graduation with the Bachelor's degree the graduate must meet all requirements for admission to the graduate program and meeting these minimum requirements does not guarantee admission to the graduate program.

PMNC-CER - Nursing, Post Graduate Certificate for Psychiatric Mental Health Nurse Practitioner

Program Overview

Program Long Title

Nursing, Post Graduate Certificate for Psychiatric Mental Health Nurse Practitioner

College/School

Nursing

Department(s)

Nursing

Catalog Full Description

The PMHNP Post-Graduate Certificate is targeted toward Advance Practice Registered Nurses (Nurse Practitioner) who are seeking a second certification as a PMHNP. This certificate can be completed in a four-semester time frame for current APRN's. Certificate graduates will be eligible to sit for a second certification as a PMHNP.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

The certificate is a 23 credit hour and 560 clinical contact hour post-graduate certificate.

Admission Requirements

Admission Requirements

- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Current certification as an APRN
- Resume or CV with three (3) professional references with appropriate contact information.
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The certificate is a 23 credit hour and 560 clinical contact hour post-graduate certificate.

Certificate Requirements

Type
Completion Requirement

Required Coursework

Complete ALL of the following Courses:

- NURS6710 - Adv Family Psy Nursing I
- NURS6711 - Adv Family Psy Nurs I: Pract
- NURS6712 - Adv Fam Psy Nursing II
- NURS6713 - Adv Fam Psy Nurs II: Pract
- NURS6714 - Adv Fam Psy Nursing III
- NURS6715 - Adv Fam Psy Nurs III: Pract
- NURS6716 - Final Psy Nurs Preceptorship
- NURS6911 - Trans to Cert/Prac-Psy Nrs Pra

Additional Information

Information And Additional Notes

Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
  - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

PMP-CER - Project Management for the Professional Certificate, M.P.S.

Program Overview

Program Long Title
Project Management for the Professional Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
TTU's online Project Management for the Professional Concentration and Certificate prepares students to meet the growing demands for project management with courses grounded in the methodologies, strategies, skills, and tactics critical for success. The program accepts students from a variety of backgrounds providing professionals the opportunity to transition from one career to another. The program does not require a calculus background.

The courses are 7-weeks long and can be taken completely online. The program can be taken as part of the Master of Professionals Studies degree (30 hours) or as a 12-hour graduate certificate or as a non-degree seeking student.

The program uses the Project Management Body of Knowledge Manual but is not accredited through PMI; consequently, TTU can explore other schools of thought. Students completing the program receive training from PMI certified instructors as well as 20+ year veterans of industry.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

The certificate is a 12-credit hour program.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The program does not require a calculus background. The certificate is a 12-credit hour program.

The courses are 7-weeks long and can be taken completely online. The program can be taken as part of the Master of Professionals Studies degree (30 hours) or as a 12-hour graduate certificate or as a non-degree seeking student.

Certificate Requirements

Type
Completion Requirement

Project Management Certificate Required Courses (12 Hours)

Complete ALL of the following Courses:

- PRST6820 - Intro: Project Mgmt Expec/Meth
- PRST6830 - Project Mgmt Process/Dev Strat
- PRST6840 - Project Mgmt: Schedule & Fin
- PRST6850 - PM: Risk, Assessment & Quality

Undergraduate Fast Track Program

Undergraduate Fast Track Program

MPS Fast-track Program Admissions:
The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used

to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

PNP-CER - Nursing, Post Graduate Certificate, Pediatric Nurse Practitioner

Program Overview

Program Long Title
Nursing, Post Graduate Certificate, Pediatric Nurse Practitioner

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
This post-graduate certificate in Pediatric Nurse Practitioner will allow APRN's certified in other concentrations such as FNP to expand their role and increase their marketability.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

The Post-Certificate Pediatric Nurse Practitioner program is 23 credit hours and 510 clock hours.

Admission Requirements

Admission Requirements

- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Current certification as an APRN
- Resume or CV with three (3) professional references with appropriate contact information
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Post-Certificate Pediatric Nurse Practitioner program is 23 credit hours and 510 clock hours.

Course Requirements

Type
Completion Requirement

Required Courses

Complete ALL of the following Courses:

- NURS5315 - Hlth Promotio of Growing Child
- NURS5305 - Ped Prim Care I-Well Child
- NURS5311 - Ped Prim Care I-Well Child Pra
- NURS5306 - Ped Prim Care II-Ep/Mnr Ac Iln
- NURS5312 - Adv Ped Nrs Pract II
- NURS5316 - Ped Primary Care III
- NURS5317 - Adv Ped Nurs Pract III
- NURS5314 - Adv Pediatric Precept & Cert

Additional Information

Information And Additional Notes

Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
  - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
  - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
  - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
  - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
  - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.
  - An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

PS-CER - Public Safety Certificate, M.P.S.

Program Overview

Program Long Title
Public Safety Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The certificate program in Public Safety is an interdisciplinary program of study designed to provide the public safety professional with leadership and strategic management tools to lead and serve in one of the nation's growing professions. The focus of the program is to provide these professionals with the opportunity to develop important skills in risk assessment and disaster preparations, crisis response, public safety leadership, research, and administration in the various components of law enforcement security, emergency management, and other public service systems that include local, state, and federal agencies.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

This Certificate is 12-credit hours.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Students will complete 12 credit hours of required courses (see list below) to achieve the Graduate Certificate in Public Safety.

Certificate Requirements

Type
Completion Requirement

Certificate Requirements

Complete at least 4 of the following courses:

- PRST6200 - Globalization & the Profession
- PRST6700 - Conflict Management and Negotiation
- PRST6710 - Risk Assessment & Prevention
- PRST6720 - Crisis Response Management
- PRST6730 - Leadership in Public Safety
  OR PRST6721 - Managing Emergency Volunteers
- PRST6500 - Foundations of Leadership
- PRST6740 - Diversity in Public Safety
- PRST6750 - Preparedness and Mitigation
- PRST6751 - Global Terrorism-Pndmc/Epidmcs
- PRST6780 - Intelligence Gathering
- PRST6781 - Science of Contact Tracing
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6911 - Constitution & Society
- PRST6920 - Diversity in the Workplace

Optional Special Topics Course

Some students may be advised to select a special topics course as one of the 4 certificate courses.

Earn at least 3 credits from the following:

- PRST/Special Topics

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

PSM-ENIN - Professional Science, Environmental Informatics Concentration, P.S.M.

Program Overview

Program Long Title

Professional Science, Environmental Informatics Concentration, P.S.M.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Population growth, pollution, and limited natural resources, result in increasingly topical environmental issues. The Professional Science Master's with a concentration in Environmental Informatics degree program effectively prepares you for a career dedicated to sustaining Earth's resources for future generations.

There are increasing numbers of career opportunities for professionals with this degree. Environmental scientists and technicians are required to meet increasing demands placed on companies as worldwide awareness of environmentalism increases. Statistics show many professionals in this field will soon be retiring, leaving space for the next generation of environmentalists.

The program is designed for graduates of approved natural resources undergraduate programs (e.g., environmental biology, environmental chemistry, environmental engineering, water resources engineering, geology, environmental agriculture, environmental management, etc.).

The Professional Science Master’s degree in Environmental Informatics is a 30 hour degree program with a thesis and non-thesis option. The degree requirements include:

Non-thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Committee-Approved Electives:** 12 hours
- **Total Degree Requirements:** 30 hours

Thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Research and Thesis:** 6 hours
- **Committee-Approved Electives:** 6 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

- Undergraduate degree in science, technology, engineering, or mathematics discipline* with GPA of at least 3.0 on a 4.0 scale; [OR] a total score of at least 300 on verbal and quantitative portions of the GRE General Test along with a score of at least 3.5 score on the analytical writing portion of the test.
- Official transcripts from all previously-attended colleges or universities
- Three (3) letters of recommendation from faculty or supervisors familiar with the academic ability of the applicant.

- International applicants must also meet the English Language Requirement by providing test results on one (1)of the following:
    - TOEFL - minimum score 4.0
    - IELTS - minimum base score of 6.0

*Applicants that have baccalaureate degrees in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Professional Science Master's degree in Environmental Informatics is a 30 hour degree program with a thesis and non-thesis option. The degree requirements include:

Non-thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Committee-Approved Electives:** 12 hours
- **Total Degree Requirements:** 30 hours

Thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Research and Thesis:** 6 hours
- **Committee-Approved Electives:** 6 hours
- **Total Degree Requirements:** 30 hours

Non-Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6910 Capstone Internship Capstone Experience/Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- ESS6200 - Fundamentals of Environmental Spatial Analysis
- ESS6300 - Remote Sensing and Field Applications of GIS
- ESS6510 - Programming GIS
- ESS6520 - Env Informatics Python Apps
- EVS7900 - Sci Writing/Grantsmanship
- GEOG5410 - Remote Sensing
- GEOG5650 - Environmental Apps of GIS

NOTE: If the student does not have previous coursework or professional experience in GIS, then ESS 6200 Fundamentals of Environmental Spatial Analysis will be required as one of the courses to be taken in the Concentration.

Committee Approved Electives (12 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6900 Professional Internship Professional Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- ESS6200 - Fundamentals of Environmental Spatial Analysis
- ESS6300 - Remote Sensing and Field Applications of GIS
- ESS6510 - Programming GIS
- ESS6520 - Env Informatics Python Apps
- EVS7900 - Sci Writing/Grantsmanship
- GEOG5410 - Remote Sensing
- GEOG5650 - Environmental Apps of GIS

NOTE: If the student does not have previous coursework or professional experience in GIS then ESS 6200 Fundamentals of Environmental Spatial Analysis will be required as one of the courses to be taken in the Concentration.

Committee Approved Electives (6 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Research and Thesis (6 hours)

Earn at least 6 credits from the following:

- ESS6990 - Research and Thesis

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast-Track in Environmental Informatics

This will allow selected undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the P.S.M., Environmental Informatics program. The courses taken during the students junior/senior year can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change the requirements for either the undergraduate or graduate program in Environmental Informatics. Once admitted to this program, the student will be allowed to enroll in appropriate courses in the junior or senior year with the consent of the students undergraduate advisor and the Director of the P.S.M. program. Courses completed at the Graduate Level are only guaranteed to apply to the completion of the P.S.M. Environmental Informatics program.

Admission to Fast-Track

Minimum requirements for admission are:

- Applicant must be earning a baccalaureate degree in a related field, which will be evaluated on a case-by-case basis
- Recommendation of a faculty member in the student's major
- Overall GPA of 3.0
- Program participants should consult with their future P.S.M. advisor regarding appropriate graduate courses to take during their junior/senior year.
- The student must earn a minimum grade of B in the graduate courses in order to apply them to their P.S.M program of study.
- All requirements for full admission to Graduate School must be met upon undergraduate graduation. Students in the Fast-Track program must still apply for admission to the Graduate School and meeting Fast-Track requirements does not necessarily guarantee admission to the PSM-Environmental Informatics degree program.
- Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee acceptance into the Professional Science Masters, Environmental Informatics Fast Track program. Students who meet the above minimum requirements must consult with the College of Interdisciplinary Studies and the School of Environmental Studies for eligibility and acceptance.

PSM-ESC - Professional Science, Environmental Science Concentration, P.S.M.

Program Overview

Program Long Title

Professional Science, Environmental Science Concentration, P.S.M.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Environmental science encompasses collaborative and perspectives from a variety of fields to provide students with an interdisciplinary approach to science. Students may integrate course work from a variety of fields, such as engineering, education, mathematics, geology, chemistry, agriculture and biology to gain a powerful approach for addressing problems in environmental science in an effective way. They will be prepared to lead initiatives that require a combination of scientific knowledge with data analysis and business strategies. The proposed new concentration will have a thesis or non-thesis route to allow students to choose the option that best fits their career and research goals. Tennessee Tech has a history of fostering interdisciplinary teaching and research initiatives and there is a strong critical mass of faculty in other disciplines who could serve as mentors and faculty advisors to master's students. The addition of a new concentration in Environmental Science will increase the sustainability and stability of the PSM program by increasing enrollment and graduation rates, stimulating external grant funding for projects related to Environmental Science, and providing a pathway for industry or government employees as well as undergraduate environmental science students interested in pursuing a graduate degree at Tennessee Tech.

Since 2006, the Council of Graduate schools endorsed the PSM program model and currently over 100 institutions have developed these interdisciplinary graduate programs that are characterized by science and mathematics with skills-based courses in management and leadership with an internship component. The proposed PSM program with a concentration in Environmental Science meets all those criteria and will seek PSM recognition from the Council.

The Professional Science Master's degree in Environmental Science is a 30 hour degree program with a thesis and non-thesis option. The degree requirements include:

Non-thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Committee-Approved Electives:** 12 hours
- **Total Degree Requirements:** 30 hours

Thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Research and Thesis:** 6 hours
- **Committee-Approved Electives:** 6 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

- Undergraduate degree in science, technology, engineering, or mathematics discipline* with GPA of at least 3.0 on a 4.0 scale; [OR] a total score of at least 300 on verbal and quantitative portions of the GRE General Test along with a score of at least 3.5 score on the analytical writing portion of the test.
- Official transcripts from all previously-attended colleges or universities
- Three (3) letters of recommendation from faculty or supervisors familiar with the academic ability of the applicant.
- International applicants must also meet the English Language Requirement by providing test results on one (1)of the following:
    - TOEFL - minimum score 4.0
    - IELTS - minimum base score of 6.0

*Applicants that have baccalaureate degrees in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Non-Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6910 Capstone Internship Capstone Experience/Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- EVS7800 - Prof Dev for Doctoral Students **OR** EVS7900 - Sci Writing/Grantsmanship
- EVSA6010 - Environmental Agriculture
- EVSB6010 - Environmental Biology
- EVSC6010 - Environmental Chemistry
- EVSG6010 - Environmental Geology

At least one course must be an EVS 6010 course.

NOTE: Students entering the PSM Environmental Science concentration should have previous coursework or professional experience in Ecology; if not, then EVSB 6010 Environmental Biology will be a required course in their program of study.

Committee Approved Electives (12 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6900 Professional Internship Professional Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- EVS7800 - Prof Dev for Doctoral Students **OR** EVS7900 - Sci Writing/Grantsmanship
- EVSA6010 - Environmental Agriculture
- EVSB6010 - Environmental Biology
- EVSC6010 - Environmental Chemistry
- EVSG6010 - Environmental Geology

At least one course must be an EVS- 6010 course.

NOTE: Students entering the PSM Environmental Science concentration should have previous coursework or professional experience in Ecology; if not, then EVSB 6010 Environmental Biology will be a required course in their program of study.

Committee Approved Electives (6 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Research and Thesis (6 hours)

Earn at least 6 credits from the following:

- ESS6990 - Research and Thesis

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast-Track in Environmental Science

This will allow selected undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the P.S.M. Environmental Informatics program, P.S.M. Environmental Science program, or P.S.M. Environmental Sustainability program. The courses taken during the student's junior/senior year can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change the requirements for either the undergraduate or graduate program in Environmental Informatics, Environmental Science, or Environmental Sustainability. Once admitted to this program, the student will be allowed to enroll in appropriate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the P.S.M. program..

Admission to Fast-Track

Minimum requirements for admission are:

- Applicant must be earning a baccalaureate degree in a related field, which will be evaluated on a case-by-case basis
- Recommendation of a faculty member in the students major
- Overall GPA of 3.0
- Program participants should consult with their future P.S.M. advisor regarding appropriate graduate courses to take during their junior/senior year.
- The student must earn a minimum grade of B in the graduate courses in order to apply them to their P.S.M program of study.
- All requirements for full admission to Graduate School must be met upon undergraduate graduation. Students in the Fast-Track program must still apply for admission to the Graduate School and meeting Fast-Track requirements does not necessarily guarantee admission to the PSM-Environmental Informatics, PSM-Environmental Science, or PSM-Environmental Sustainability degree programs.
- Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee acceptance into the Professional Science Master's-Environmental Informatics, PSM-Environmental Science, or PSM-Environmental Sustainability Fast Track programs. Students who meet the above minimum requirements must consult with the College of Interdisciplinary Studies and the School of Environmental Studies for eligibility and acceptance.

PSM-ESU - Professional Science, Environmental Sustainability Concentration, P.S.M.

Program Overview

Program Long Title

Professional Science, Environmental Sustainability Concentration, P.S.M.

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

Environmental sustainability combines the study of natural resources, green technologies, environmental regulations and social practices to address environmental issues on a variety of scales. Sustainable development relies on the understanding of economic, environmental, and social goals simultaneously. The proposed concentration in Environmental Sustainability will prepare students for entry into a variety of career options in industry, business, conservation, or government. The unique integration of expertise from a variety of fields such as engineering, economics, history, sociology, political science, philosophy, ethics and others will allow students a powerful platform to address sustainability in their future careers. Graduates from this concentration will be well-prepared to lead initiatives that balance profitability and environmental stewardship, with the ability to analyze data to drive impactful and sustainable solutions. The proposed new concentration will have a thesis or non-thesis route to allow students to choose the option that best fits their career and research goals. Tennessee Tech has a history of fostering interdisciplinary teaching and research initiatives and there is a strong critical mass of faculty in other disciplines who could serve as mentors and faculty advisors to master's students. The addition of a new concentration in Environmental Sustainability will increase the sustainability and stability of the PSM program by increasing enrollment and graduation rates, stimulating external grant funding for projects related to Environmental Sustainability, and providing a pathway for current industry and government employees as well as undergraduate students who hope to pursue a graduate degree at Tennessee Tech.

Since 2006, the Council of Graduate schools endorsed the PSM program model and currently over 100 institutions have developed these interdisciplinary graduate programs that are characterized by science and mathematics with skills-based courses in management and leadership with an internship component. The proposed PSM program with a concentration in Environmental Sustainability meets all those criteria and will seek PSM recognition from the Council.

The Professional Science Master's degree in Environmental Sustainability is a 30 hour degree program with a thesis and non-thesis option. The degree requirements include:

Non-thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Committee-Approved Electives:** 12 hours
- **Total Degree Requirements:** 30 hours

Thesis option:

- **Required Core Courses:** 12 hours
- **Concentration Course Requirements:** 6 hours
- **Research and Thesis:** 6 hours
- **Committee-Approved Electives:** 6 hours
- **Total Degree Requirements:** 30 hours

Admission Requirements

Admission Requirements

- Undergraduate degree in science, technology, engineering, or mathematics discipline* with GPA of at least 3.0 on a 4.0 scale; [OR] a total score of at least 300 on verbal and quantitative portions of the GRE General Test along with a score of at least 3.5 score on the analytical writing portion of the test.
- Official transcripts from all previously-attended colleges or universities
- Three (3) letters of recommendation from faculty or supervisors familiar with the academic ability of the applicant.
- International applicants must also meet the English Language Requirement by providing test results on one (1)of the following:
    - TOEFL -minimum score 4.0
    - IELTS - minimum base score of 6.0

*Applicants that have baccalaureate degrees in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Professional Science Master's degree in Environmental Sustainability is a 30 hour degree program with a thesis and non-thesis option. The degree requirements include:

Non-Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6910 Capstone Internship Capstone Experience/Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- BIOL5840 - Limnology
- CHE6130 - FEW Nexus Challenge
- ECON5200 - Environmental Economics
- ESS5300 - Environmental Mgmt System
- EVS7800 - Prof Dev for Doctoral Students
- SOC6100 - Interdisc Cultural Training
  OR HIST6100 - Interdisc Cultural Training
- WFS5730 - Conservation Biology

NOTE: Students entering the PSM Environmental Sustainability concentration should have previous coursework or professional experience in Ecology; if not, then EVSB 6010 Environmental Biology will be a required course in their program of study.

Committee Approved Electives (12 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Thesis Program Requirements

Type
Completion Requirement

Core Courses (12 hours)

- Complete one committee-approved graduate-level statistics course from BIOL, MATH, PRST, or PSY
- Complete one committee-approved graduate-level leadership course from BMGT or PRST
- Complete ESS6900 Professional Internship Professional Internship
- Complete one of the following: ESS6000 Environmental Law Environmental Law OR EVSS6010 Environmental Social Policy Environmental Social Policy OR WFS5500 National Wildlife Policy National Wildlife Policy

Fulfill ALL of the following requirements:

Concentration Course Requirements (6 hours)

Complete at least 2 of the following courses:

- BIOL5840 - Limnology
- CHE6130 - FEW Nexus Challenge
- ECON5200 - Environmental Economics
- ESS5300 - Environmental Mgmt System
- EVS7800 - Prof Dev for Doctoral Students
- SOC6100 - Interdisc Cultural Training
  OR HIST6100 - Interdisc Cultural Training
- WFS5730 - Conservation Biology

NOTE: Students entering the PSM Environmental Sustainability concentration should have previous coursework or professional experience in Ecology; if not, then EVSB 6010 Environmental Biology will be a required course in their program of study.

Committee Approved Electives (6 hours)

Any graduate-level courses approved by the student's graduate advisory committee (from any 5000-, 6000-, or 7000-level course).

Research and Thesis (6 hours)

Earn at least 6 credits from the following:

- ESS6990 - Research and Thesis

Additional Comments:

Total Credit Hours: 30

Course Substitutions

Course Substitutions are allowed upon approval of the graduate advisory committee, department chair/director, and dean of the college.

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Fast-Track in Environmental Sustainability

This will allow selected undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the P.S.M. Environmental Informatics program, P.S.M. Environmental Science program, or P.S.M. Environmental Sustainability program. The courses taken during the student's junior/senior year can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change the requirements for either the undergraduate or graduate program in Environmental Informatics, Environmental Science, or Environmental Sustainability. Once admitted to this program, the student will be allowed to enroll in appropriate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the P.S.M. program.

Admission to Fast-Track

Minimum requirements for admission are:

- Applicant must be earning a baccalaureate degree in a related field, which will be evaluated on a case-by-case basis
- Recommendation of a faculty member in the student's major
- Overall GPA of 3.0
- Program participants should consult with their future P.S.M. advisor regarding appropriate graduate courses to take during their junior/ senior year.
- The student must earn a minimum grade of B in the graduate courses in order to apply them to their P.S.M program of study.
- All requirements for full admission to Graduate School must be met upon undergraduate graduation. Students in the Fast-Track program must still apply for admission to the Graduate School and meeting Fast-Track requirements does not necessarily guarantee admission to the PSM-Environmental Informatics, PSM-Environmental Science, or PSM Environmental Sustainability degree programs.
- Students who do not succeed in their first graduate course (B grade or better) will be advised to withdraw from the Fast Track program and complete their B.S. degree in a normal manner.

Fulfilling the above minimum requirements does not guarantee acceptance into the Professional Science Master's-Environmental Informatics, PSM-Environmental Science, or PSM-Environmental Sustainability Fast Track programs. Students who meet the above minimum requirements must consult with the College of Interdisciplinary Studies and the School of Environmental Studies for eligibility and acceptance.

SL-CER - Strategic Leadership Certificate, M.P.S.

Program Overview

Program Long Title

Strategic Leadership Certificate, M.P.S.

College/School

Emerging & Integrative Studies

Department(s)

Professional Studies

Catalog Full Description

A certificate in Strategic Leadership prepares students to lead in today's rapidly changing professional environment. A certificate in strategic leadership exposes students to guiding principles that can be applied to any career field. This certificate explores the topic from a contemporary perspective facing a dynamic global business environment.

Certificate requirements emphasize competencies for implementing organizational systems, managing and communicating change, and resolving conflict within a framework of ethical leadership. The program gives students an opportunity to expand their understanding of inclusive and collaborative leadership behaviors and develop skills for using them effectively.

Throughout the program students will continually reflect on, assess and frame their own personal leadership style, strengths and weaknesses. The interdisciplinary approach integrates administration with leadership competencies that develop visionary professionals who can think critically, evaluate process, strategize, innovate practices, communicate, and manage changes that will position their organization for future success.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

This is a 12-credit hour program.

Admission Requirements

Admission Requirements

The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;

- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The student will complete 12 credit hours of coursework (see list below) to receive the Graduate Certificate in Strategic Leadership.

Degree Requirements

Type
Completion Requirement

Certificate Requirements

Complete at least 4 of the following courses:

- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6310 - Leadership in Organization
- PRST6500 - Foundations of Leadership
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6700 - Conflict Management and Negotiation
- PRST6721 - Managing Emergency Volunteers
- PRST6730 - Leadership in Public Safety
- PRST6770 - Computer-Based Decision Model
- PRST6790 - Special Topics
  OR PRST6791 - Special Topics
  OR PRST6792 - Special Topics
  OR PRST6793 - Special Topics
  OR PRST6794 - Special Topics
  OR PRST6795 - Special Topics
  OR PRST6796 - Special Topics
  OR PRST6797 - Special Topics
  OR PRST6798 - Special Topics
  OR PRST6799 - Special Topics
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6810 - Masters of Prof Studies Internships
- ELPA6560 - Small Group Leadership
- LDSP6000 - Current Issues in Leadership
- JOUR6450 - PR Management

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

SRV2-CER - Students Engaging, Responding, Volunteering, & Impacting Communities Everywhere (SERVICE) Certificate

Program Overview

Program Long Title
Students Engaging, Responding, Volunteering, & Impacting Communities Everywhere (SERVICE) Certificate

College/School
Education and Human Sciences

Department(s)
Curriculum and Instruction

Catalog Full Description
The Students Engaging, Responding, Volunteering, & Impacting Communities Everywhere (SERVICE) Certificate requires 12 credit hours of coursework (or equivalent). The certificate requires 6 credit hours of coursework to come from the College of Education and provides the option of the additional 6 hours to be attained from any TTU unit with appropriate service learning courses/options available. Service Learning opportunities are available in a number of courses offered by the Department of Curriculum and Instruction, but students may also accumulate hours by self- identifying and pursuing service learning opportunities in the community.

Admission Requirements

Admission Requirements
Students apply for the graduate certificate following the Master of Arts in Curriculum and Instruction admissions criteria listed below:

Requirements for Admission in Full Standing:

- For full admission, overall undergraduate GPA of 2.75 or above upon completion of a baccalaureate degree program.
- Provide contact information for three references (name and email)
- Successfully complete additional College of Graduate Studies application requirements (transcripts, application, etc.)

Additional Admission Requirements for Provisional Standing:
Provisional standing may be requested by a departmental evaluation when the undergraduate GPA is lower than 2.75. Teacher licensure standards may require a separate minimum GPA for licensure.

- To advance from provisional to full admission, a student must earn a minimum of 3.0 GPA on the first nine (9) hours of graduate study.

Additional Admission Requirements for International Students:
International applicants must also meet or exceed the minimum English Language Requirements as set by the College of Graduate Studies in the current Graduate Catalog.

Degree Requirements and Requisites

Simple Requirements

(No Requirement Levels)

Approved College of Education Courses: 6-12 credit hours

Type
Completion Requirement

Courses Open to Education Majors

Complete ANY of the following Courses:

- SEED5322 - Teaching Algebra in Middle/HS
- SPED5200 - Tch Stu w/ Autism Spect Disord

Courses Open to All Majors

Complete ANY of the following Courses:

- CUED5750 - Service Learning: Informal STEM Education
- CUED5850 - Workshop in Education (Inactive)
- CUED5900 - Study Abroad
- CUED6750 - Service Learning: Informal STEM Education **OR** CUED7750 - Service Learning: Informal STEM Education
- SVCL5150 - Topics
- SVCL6150 - Topics **OR** SVCL7150 - Topics
- SVCL5920 - Service Learning in Community
- SVCL6920 - Service Learning in Community **OR** SVCL7920 - Service Learning in Community

Total Credit Hours: 12 hours

Advisor Guided Electives or Pre-Approved clock hours: Up to 6 credit hours

Type
Completion Requirement

TD-CER - Training and Development Certificate, M.P.S.

Program Overview

Program Long Title
Training and Development Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The Training and Development certificate program equips leaders for the growing and evolving field of workplace learning and performance. Students will build both theoretical and practical knowledge and skills in adult learning and cognition, organizational needs analysis, project planning, instructional design, development, and delivery/evaluation in traditional and virtual environments.

The goal of the certificate is to prepare students for employement opportunities where the effective transfer of learning is critical to an organization's success in achieving its overall goals and objectives.

Students will be ready to manage, deliver and assess on-site performance-based training, instructional design, and address the needs of human resource managers and other professionals who are increasingly relying on technology to deliver workforce education.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

This is a 12-credit hour certificate.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The student will complete 12 credit hours of coursework (see options below) to earn the Graduate Certificate in Training and Development.

Degree Requirements

Type
Completion Requirement

Certificate Requirements

Complete at least 4 of the following courses:

- PRST6040 - Human Resources Mgmt
- PRST6105 - Project Planning & Scheduling
- PRST6200 - Globalization & the Profession
- PRST6400 - Instructional Dsgn/Trning-Devl
- PRST6410 - Evaluation of Learning
- PRST6420 - Organizational Needs Analysis
- PRST6421 - Strategic Org Prog Plan/Eval
- PRST6430 - Adv Instr Design/Training & Dvlpment
- PRST6440 - Teaching On-Line
- PRST6450 - Computer-Based Tech/E-Training
- PRST6460 - Training and Development (Inactive)
- PRST6800 - Organizational Skills/Dvlpmnt
- PRST6910 - Employment & Human Resources
- PRST6920 - Diversity in the Workplace
- PRST6790 - Special Topics
  OR PRST6791 - Special Topics
  OR PRST6792 - Special Topics
  OR PRST6793 - Special Topics
  OR PRST6794 - Special Topics
  OR PRST6795 - Special Topics
  OR PRST6796 - Special Topics

OR PRST6797 - Special Topics
OR PRST6798 - Special Topics
OR PRST6799 - Special Topics

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-tme.

TENI-CER - Technical Environmental Informatics Certificate, Environmental Studies

Program Overview

Program Long Title

Technical Environmental Informatics Certificate, Environmental Studies

College/School

Emerging & Integrative Studies

Department(s)

Environmental Studies

Catalog Full Description

There are two 15-credit hour graduate certificates in the Professional Science Master’s degree program within the Environmental Informatics concentration: (a) Managerial Environmental Informatics and (b) Technical Environmental Informatics.

Students may earn one or both certificates as stand-alone graduate certificates, or as embedded within the 33-credit hour PSM degree program.

Technical Environmental Informatics is a 15 credit hour graduate certificate program that brings together information systems, GIS application and programming, statistics and social policy/law.

Students may earn the certificate as a stand-alone graduate certificate, or as embedded within the 33-credit hour PSM degree program.

Total Certificate Requirements: 15 credit hours

Admission Requirements

Admission Requirements

- Undergraduate degree in science, technology, engineering, or mathematics discipline* with GPA of at least 3.0 on a 4.0 scale **OR** a total score of at least 300 on verbal and quantitative portions of the GRE General Test along with a score of at least 3.5 on the analytical writing portion of the test.
- Official transcripts from all previously-attended colleges or universities
- Three (3) letters of recommendation from faculty familiar with the academic ability of the applicant.
- International applicants must also meet the English Language Requirement by providing test results on **one** (**1**) of the following:
    - TOEFL--minimum score 4.0
    - IELTS--minimum base score of 6.0

*Applicants that have baccalaureate degrees in a closely related field will be evaluated on a case-by-case basis and may be admitted to full standing upon completion of identified background courses.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Technical Environmental Informatics is a 15 credit hour graduate certificate program that brings together information systems, GIS application and programming, statistics and social policy/law.

Students may earn the certificate as a stand-alone graduate certificate, or as embedded within the 33-credithour PSM degree program.

Certificate Requirements (15 hours)

Type
Completion Requirement

Certificate Requirements

Complete ALL of the following Courses:

- GEOG5410 - Remote Sensing
  OR GEOG5650 - Environmental Apps of GIS
- EVSS6010 - Environmental Social Policy
  OR ESS6000 - Environmental Law
- CSC6200 - Secure E-Commerce
  OR CSC6230 - Machine Learning
  OR ESS6520 - Env Informatics Python Apps
- ESS6510 - Programming GIS

Select 1 Statistics Course from the Following List

Complete at least 1 of the following courses:

- AGBE5210 - Ag & Biological Statistics
- BIOL5220 - Biostatistics
- BIOL6140 - Fish & Wildlife Biometrics
- MATH6070 - App Linear Stat Meth I
- MATH6080 - App Linear Stat Meth II
- MATH6170 - Experimental Design I
- MATH6180 - Experimental Design II
- MATH6180 - Experimental Design II
- MATH6470 - Environmental Statistics
- PRST6600 - Statistical Analysis
- PSY6310 - Educational Statistics
- SOC5920 - Data Analysis & Mgmt

Total Certificate Hours: 15

TESL-CER - Teaching English to Speakers of Other Languages Certificate, M.P.S.

Program Overview

Program Long Title
Teaching English to Speakers of Other Languages Certificate, M.P.S.

College/School
Emerging & Integrative Studies

Department(s)
Professional Studies

Catalog Full Description
The TESOL Certificate and concentration are designed to meet an ongoing demand for both initial preparation and continuing education for individuals who plan to teach or are currently teaching English as a second/foreign language in various educational settings. This includes students with strong English-speaking backgrounds who desire to teach English as a second/foreign language to adults in the United States or abroad or to traditional students in another country. This program would also meet the needs of non-native teachers of English in other countries looking to receive additional English language and pedagogical training from an American university. This program is not for students seeking an ESL endorsement for teaching in U.S public schools.

Students seeking a Graduate Certificate will go through the graduate application process as if they were seeking an MPS degree, meeting all admissions requirements as set forth in the degree program. Once admitted, students are considered MPS degree seeking students and will be working towards completing the pre-defined coursework (12 hours) as listed in this catalog. Upon completion of the 12 hours defined in the program, the student will receive a Graduate Certificate in the appropriate field of study. After completion of the 12-hour Graduate Certificate, the student may continue to fulfill the requirements of the MPS degree. Students are required to meet all graduate student requirements that include maintaining their GPA at the 3.0 level.

This is a 12-credit hour program.

Admission Requirements

Admission Requirements
For Full Standing: The minimum admission requirements are:

1. A bachelor's degree from an accredited institution

2. Satisfactory undergraduate grade point average, a minimum of 2.5 on a 4.0 scale.

And, applicants must meet one of the following conditions:

1. 3.0 grade point average in their undergraduate major course of study
2. A score of 146 on the verbal portion of the GRE® General Test (GRE) and 144 quantitative portion.
3. A combined score of 290 on the verbal and quantitative reasoning sections and a 3.5 on analytical writing.
4. Five (5) or more years of professional work experience demonstrated through a portfolio.

The portfolio is to include:

- a resume;
- a 500- to 600-word essay detailing the reasons for wanting to enter the MPS program and discussing how the program will help the applicant achieve personal and professional goals; and
- two (2) sealed letters of professional reference.

Other items that an applicant may include in the portfolio include a description of professional responsibilities, professional achievements and professional awards/recognition's. The portfolio material must be submitted as a packet, not mailed separately.

International students must meet English language proficiency requirements by providing a TOEFL score. Minimum 3.5 or an approved equivalent exam and equivalent scores. International applicants with a score below 4.0 must complete 6 hours of grammar/reading/communication course work. The 6 hours are in addition to the 30 hours required for the Master's degree. Satisfying minimal standards, however, does not guarantee your admission. Admission decisions are based on departmental review, using a combination of factors including an interview to evaluate dispositions for professionals in the chosen concentration. Students may be admitted with provisional status if they do not meet all of the criteria above but do meet the minimum requirements of the graduate school and are approved for provisional status by the departmental admissions committee. Provisional status will limit students to a maximum of 9 hours before the departmental admissions committee makes a recommendation for full admission. To advance from provisional to full admission a student must earn a 3.0 GPA on the 9 hours of graduate study in the concentration and be approved by the departmental admissions committee.

Note: All international students who attend TTU, who are enrolled on the Department of Homeland Securities F-1 or J-1 visa status must complete all midterm and final exams in a proctored setting on the Tennessee Tech University campus in Cookeville, TN.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

Students will complete 12 credit hours (see course options below) to earn the Graduate Certificate in TESOL.

Certificate Requirements

Type
Completion Requirement

Certificate Requirements

Complete at least 4 of the following courses:

- PRST6200 - Globalization & the Profession
- PRST6330 - Interntl Iss/EDU Policy-Pract
- ENGL4531 - Grammar and Language
- ENGL4511 - Intro/Descriptive Linguistics
- ESLP4200 - ESL Assessment and Writing
- CUED6010 - Curriculum Development & Evaluation
- CUED6440 - Emerging Technologies in Education
- CUED6920 - Topics

Optional Special Topics Course

Some students may be advised to take a special topics course as one of their 4 certificate courses.

Earn at least 3 credits from the following:

- PRST/Special Topics

Undergraduate Fast Track Program

Undergraduate Fast Track Program

The MPS Fast-track program will allow eligible undergraduates to enroll for up to six (6) hours of graduate courses prior to formal admission to the MPS program. The courses will be taken during the student's junior/senior year and can be used to satisfy both undergraduate and graduate degree requirements. Participation does not change requirements for either the undergraduate or graduate programs of study.

The MPS Fast-track program applies to all MPS concentrations. Once admitted to the MPS Fast-track program, the student will be allowed to enroll in appropriate graduate courses in the junior or senior year with the consent of the student's undergraduate advisor and the Director of the MPS program.

Courses completed at the Graduate Level are only guaranteed to apply to the completion of the MPS graduate degree program. The student must earn a minimum grade of "B" in the graduate courses in order to apply them to the MPS program of study and to continue in the Fast-track program. The MPS Fast-track program is open to all undergraduate majors whom meet the following admissions requirements:

• Fast-track applicant must be earning a baccalaureate degree at TTU and completed at least 90 hours of credit;

• Overall undergraduate GPA of 3.0 or better;

• GPA of 3.25 in undergraduate major;

• Recommendation from the student's undergraduate advisor Note: in addition to the requirements for admission to the MPS Fast-track program, all requirements for admission to the graduate program must also be met upon graduation. Meeting these minimum requirements does not guarantee admission to the graduate program.

Full Time Status Defined for Accelerated Courses

For a graduate student to be considered full-time they must be enrolled in nine credit hours for the semester (excluding Graduate Assistants who may enroll in 6 hours). The Public Safety program includes an accelerated course schedule with classes available in five and seven week formats, thus the combination of the accelerated courses over the entire semester should equal nine credit hours for a student to be considered full-time.

WHCNP-CER - Nursing, Post Graduate Certificate, Women's Health Nurse Practitioner

Program Overview

Program Long Title
Nursing, Post Graduate Certificate, Women's Health Nurse Practitioner

College/School
Nursing

Department(s)
Nursing

Catalog Full Description
This post-graduate certificate in Women's Health will allow APRN's certified in other concentrations such as FNP to expand their role and increase their marketability.

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

The Post-Graduate Certificate in Women's Health Nurse Practitioner is a 23 credit hour program with 600 contact clinical hours.

Admission Requirements

Admission Requirements

- Minimum of a Master of Science in Nursing from a regionally accredited college/university and nursing program accreditation
- Current, unencumbered Registered Nurse license
- Current certification as an APRN
- Resume or CV with three (3) professional references with appropriate contact information
- A minimum of 3.0 GPA in the last degree earned
- A minimum of a "B" in the following courses within the past seven (7) years or current active practice at the MSN level.
    - Advanced Pathophysiology with general principles applied across the lifespan
    - Advanced Pharmacology including pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all broad classes of pharmacologic agents
    - Advanced Health Assessment which includes all human systems, advanced assessment techniques and approaches
    - and Advanced Health Assessment Clinical

  (The above courses are available at Tennessee Tech and students can apply for non-degree status to complete these pre-admission requirements)

Applications to the post-graduate certificate program are due by November 1 for spring admission and July 1 for fall admission.

Degree Requirements and Requisites

Simple Requirements

Degree Requirements

The Post-Graduate Certificate in Women's Health Nurse Practitioner is a 23 credit hour program with 600 contact clinical hours.

Certificate Requirements

Type
Completion Requirement

Required Coursework (23 Credit Hours)

Complete ALL of the following Courses:

- NURS5701 - Pharm for Women's Health
- NURS5702 - Women's Health Adv Pract I:GYN
- NURS5710 - Primary Care for Women's Hlth
- NURS5711 - Women's Hlth/Adv Pra IV: Pract
- NURS5712 - Women's Health Adv Pract II:OB
- NURS5713 - Complex Issues in Women's Hlth
- NURS5714 - WmnsHlth/Adv Pract I:GYNPrctm
- NURS5715 - WmnsHlth/Adv Pract II:OBPrctm
- NURS5716 - Women's Hlth/Adv Pract III:Pra

Additional Information

Information And Additional Notes
Follow the graduate school grading system as published in the TN Tech Graduate Catalog. (NOTE: only grades of A, B, and S are considered satisfactory at the graduate nursing level.)

- Required GPA:
    - Students in graduate nursing programs must meet the requirements of the College of Graduate Studies to remain in good standing. An overall grade point average (GPA) of 3.0 (B) or better must be maintained in order to graduate. Only grades of A, B and S are considered satisfactory in the graduate nursing level;
    - In addition, a graduate nursing student must achieve a grade of “B” or better in every graduate nursing course. Policies of the College of Graduate Studies for progression will apply.
    - MSN students who earn less than a “B” in a required course will have one opportunity to repeat the course. The course must be repeated at the next available opportunity. Students may only repeat two required courses. The repeated grade and the original grade will be averaged into the student’s overall GPA.
    - If a student’s cumulative grade point average falls below 3.0, she/he will be placed on academic probation at the end of that semester. Any graduate student placed in probationary Academic Standing at the end of a semester must return to Good Academic Standing by the end of the next enrolled semester. No student will be allowed more than two probationary semesters, whether consecutive or cumulative. At the end of a second probationary semester, a student whose cumulative grade point average is still below 3.0 will be dismissed from graduate study.
    - Students whose performance results in a GPA so far below 3.0 as to make it mathematically impossible to attain an overall GPA of 3 .0 after one semester may be subject to dismissal without a probationary term.

- An incomplete grade (“I”) indicates that the student was passing the course at the end of the semester, but due to circumstances beyond the student’s control, was unable to complete the coursework for which the “I” is assigned. The “I” grade cannot be used to allow a student to do additional work to raise a deficient grade or to repeat a course. An “I” grade must be removed no later than one calendar year from the time the grade is awarded. Students with more than one “I” grade cannot progress in the program. Time extension requests for removal of an “I” grade must be submitted to and approved by the Dean of College of Graduate Studies before the allotted time expires. An “I” grade not removed under the guidelines in the Graduate Catalog will be converted to an “F.”

Undergraduate Fast Track Program

Undergraduate Fast Track Program

Not Available.

All Courses

ABAP7120 - Behavior Support/Families

General

College/School
Education and Human Sciences

Course Title
Behavior Support/Families

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ABAP

Course Number
7120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Issues and practices associated with partnering with families in designing, implementing and evaluating positive behavior support for their children with challenging behavior.

ABAP7910 - Independent Study: Early Childhood SPED

General

College/School
Education and Human Sciences

Course Title
Ind Study/Early Child SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ABAP

Course Number
7910

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description

Prerequisite: Admission to Doctor Program and consent of instructor. Advanced study of an individual basis focusing on an area directly related to young children with special needs and their families.

ABAP7920 - Topics, Issues, Research/Early Childhood SPED

General

College/School
Education and Human Sciences

Course Title
Top,Iss,Rsrch/Early Child SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ABAP

Course Number
7920

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Prerequisite: Admission to Doctoral Program and consent of instructor. Advanced study of a topic or topics relevant to research and/or practice in early childhood special education, early intervention or young children and positive behavior support.

ACCT5230 - Advanced Managerial Accounting

General

College/School
Business

Course Title
Advanced Managerial Accounting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course focuses on the role of financial managers and managerial accountants, and the practical implementation of management financial reporting principles and reporting of financial results. Course also focuses on business ethics, data analytics methods, and excel and communication skills.

Requisites

Simple Requirements

Prerequisite: ACCT3210 Cost Accounting with a C or better.

ACCT5250 - Government, Not-For-Profit, and Healthcare Accounting

General

College/School
Business

Course Title
Gov, NFP, and Hlthcr Acct

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Accounting, reporting, and budgeting for governmental entities and other not-for-profit organizations, including coverage of healthcare organizations. Credit will not be granted for both ACCT 4250 and ACCT 5250. Prerequisites: ACCT 3170.

Requisites

Simple Requirements

Prerequisite: ACCT 3170.

ACCT5300 - Financial Statement Analysis

General

College/School
Business

Course Title
Financial Statement Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
In-depth study of the methodologies used to analyze financial statements. Emphasis is placed on the use of technology to understand and apply ratio analysis.

Requisites

Simple Requirements

A grade of C or better in ACCT3170 Financial Acct/Reporting I or FIN3210 Principles/Managerial Fin, or permission of instructor.

ACCT5600 - Forensic Acct & Fraud Auditing

General

College/School
Business

Course Title
Forensic Acct & Fraud Auditing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Exposure to applicable authoritative literature on the prevalence and forms of financial fraud, tools and methods of fraud auditing, and forensic tools to detect financial fraud. Includes application of Excel and other technology-based fraud detection tools. Students will not receive credit for both the 4000-level version and the 5000-level version of the class.

Requisites

Simple Requirements

Prerequisite: Junior standing in the College of Business.

ACCT5700 - Int'l Experience in Accounting

General

College/School
Business

Course Title
Int'l Experience in Accounting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A short-term, faculty-led study abroad program highlighting selected historical and modern contributions to accounting and business in the UK. Course will meet weekly during the semester in addition to spending approximately 8 days in the UK. A special course fee will apply. Students will not receive credit for both the 4000-level and 5000-level version of the class.

Requisites

Simple Requirements

Prerequisites: Open to Accounting majors and requires consent of instructor.

ACCT5900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
5900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of Instructor and Graduate director. An advanced course covering advanced topics in accounting. Graduate credit will require meeting all of the criteria for the corresponding cross-listed 4000-level course, plus additional requirements established by the instructor.

Requisites

Simple Requirements

Prerequisite: Consent of Instructor and Graduate director.

ACCT6010 - Acct Info for Mgmt Decisions

General

College/School
Business

Course Title
Acct Info for Mgmt Decisions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis, interpretation, and use of accounting information by managers in directing the operations of organizations.

Requisites

Simple Requirements

Prerequisite: None

ACCT6110 - Fin Acct Rpting Standards

General

College/School
Business

Course Title
Fin Acct Rpting Standards

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Unavailable

Requisites

Simple Requirements

Prerequisites: Undergraduate accounting core, including ACCT 3170, ACCT 3180, ACCT 3330, and ACCT 3620 (or their equivalents).

ACCT6210 - Tax Management for Entities

General

College/School
Business

Course Title
Tax Management for Entities

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Use of tax law and accounting data by management in planning, controlling, and decision making for corporations. Use of tax resources to address tax research questions. ACCT 6281 may be taken concurrently.

Requisites

Simple Requirements

Prerequisites: ACCT6281 Professional Development I and admission to Master of Accountancy program or permission of the instructor. ACCT6281 Professional Development I may be taken concurrently.

ACCT6220 - Auditing and Attestation

General

College/School
Business

Course Title
Auditing and Attestation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Emphasizes case studies, auditing simulations, modern authoritative pronouncements, and current events in the accounting profession.

Requisites

Simple Requirements

Prerequisites: ACCT6281 Professional Development I and admission to Master of Accountancy or permission of the instructor. ACCT6281 Professional Development I may be taken concurrently.

ACCT6231 - Professional Certification I - Discipline Exam

General

College/School
Business

Course Title
Prof. Cert. I-Discipline Exam

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6231

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisite: Admission to Master of Accountancy. Focused study and discussion of the topics covered on the BEC section of the Uniform CPA Examination. Coverage will cover review of key business and economic concepts.

Requisites

Simple Requirements

Prerequisite: Admission to Master of Accountancy.

ACCT6232 - Prof Certification: Audit

General

College/School
Business

Course Title
Prof Certification: Audit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6232

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description

Focused study and discussion of the topics covered on the AUDIT section of the Uniform CPA Examination. Coverage will cover review of key auditing concepts, theories, and techniques.

Requisites

Simple Requirements

Prerequisite: Admission to Master of Accountancy.

ACCT6233 - Professional Cert: Regulation

General

College/School
Business

Course Title
Professional Cert: Regulation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6233

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description

Focused study and discussion of the topics covered on the REG section of the Uniform CPA Examination. Coverage will cover review of key taxation concepts, theories, and techniques.

Requisites

Simple Requirements

Prerequisite: Admission to Master of Accountancy.

ACCT6234 - Prof Cert: Finan Acct/Rprting

General

College/School
Business

Course Title
Prof Cert: Finan Acct/Rprting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6234

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Focused study and discussion of the topics covered on the FAR section of the Uniform CPA Examination. Coverage will cover review of key financial accounting concepts, theories, and techniques.

Requisites

Simple Requirements

Prerequisite: Admission to Master of Accountancy.

ACCT6240 - Ethics & the Code of Prof Cond

General

College/School
Business

Course Title
Ethics & the Code of Prof Cond

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6240

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Professional Accountants are subject to a Code of Professional Conduct. In addition, ethical conduct in both fact and appearance is a critical aspect of the practice of professional accounting. This course will focus on the concept of ethics as it applies to the profession and to the Code of Professional Conduct.

Requisites

Simple Requirements

Prerequisite: Admission to Master of Accountancy.

ACCT6260 - Tax Mgt/Flow-thru Ent/Strategy

General

College/School
Business

Course Title
Tax Mgt/Flow-thru Ent/Strategy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Use of tax law and accounting data by management in planning, controlling, and decision-making for flow-through entities. Use of analytic methods to address tax planning and strategy problems.

Requisites

Simple Requirements

Prerequisite: ACCT6210 Tax Management for Entities and ACCT6281 Professional Development I.

ACCT6270 - Advanced Financial Accounting

General

College/School
Business

Course Title
Advanced Financial Accounting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6270

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and problems related to consolidated financial reporting, international accounting, corporate governance, and partnerships, and accounting analytics.

Requisites

Simple Requirements

Prerequisites: ACCT6281 Professional Development I and admission to Master of Accountancy or permission of instructor.

ACCT6281 - Professional Development I

General

College/School
Business

Course Title
Professional Development I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6281

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Examination of the role of leadership, teambuilding, and technical expertise in professional accounting as it relates to professional accounting.

Requisites

Simple Requirements

Prerequisites: Admission to Master of Accountancy

ACCT6282 - Professional Development II

General

College/School
Business

Course Title
Professional Development II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6282

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Continuation of Professional Development I. Examination of the role of leadership, teambuilding, and technical expertise in professional accounting as it relates to professional accounting.

Requisites

Simple Requirements

Prerequisites: Admission to Master of Accountancy.

ACCT6290 - Essential Tech for Accountants

General

College/School
Business

Course Title
Essential Tech for Accountants

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6290

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Examination and application of current technology tools commonly used in the accounting profession including pivot tables, Vlookup tables, data filtering, graphic presentation of data, data security, and data extraction.

Requisites

Simple Requirements

Prerequisites: Admission to Master of Accountancy.

ACCT6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ACCT

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

Simple Requirements

Prerequisites: None

ACCT6950 - MAcc Special Topics

General

College/School
Business

Course Title
MAcc Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ACCT

Course Number
6950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Course Description
Prerequisites: Admission to Master of Accountancy. Special Topics in Professional Accountancy. Students will engage in leading discussions, research, writing, and presentations designed to explore complex and timely issues in the field of accountancy such as data security, succession planning, legal liability, sustainability reporting, and international reporting standards.

Requisites

Simple Requirements

Prerequisites: Admission to Master of Accountancy.

AGBE5110 - Agricultural Futures Marketing and Options

General

College/School
Agriculture and Human Ecology

Course Title
Ag Futures Marketing & Options

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
AGBE

Course Number
5110

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Understanding the use of futures market contracts and options to limit risk exposure to producers and agribusiness firms. The study of market price determination, forecasting basis, technical analysis and on actual trading of futures and options through market simulation programs will be addressed. Term Paper Required.

Requisites

Simple Requirements

Prerequisite: None

AGBE5120 - Natural Resource Economics

General

College/School
Agriculture and Human Ecology

Course Title
Natural Resource Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: AGBE 2100 and/or ECON 2110, or consent of instructor. Issues and policies involving pollution, depletable and renewable resources, and sustainable development. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

AGBE5130 - Agricultural Policy

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Policy

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
AGBE

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explore the landscape of agricultural policy and its impact on food and farming. We examine policy implications in developed and developing countries, and nutritional environments influencing policy makers.

Requisites

Simple Requirements

Prerequisites: Acceptance into MBA Program + ECON 2020 + ECON 2010

AGBE5200 - Agribusiness Statistics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGBE

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sampling, probability, distributions, statistical tests, analysis of variance, regressions, and interpretation of data as related to agricultural business.

Requisites

AGBE5210 - Ag & Biological Statistics

General

College/School
Agriculture and Human Ecology

Course Title
Ag & Biological Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sampling, probability, distributions, statistical tests, analysis of variance, regression, interpretation of data. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

AGBE5400 - Agricultural Finance

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Finance

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
AGBE

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Financial statements and analyses for farms and agribusiness firms, time value of money, capital and credit requirements, and sources.

Requisites

Simple Requirements

Prerequisite: None

AGBE5940 - Agribusiness Econ Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Econ Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5940

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGBE5950 - Agribusiness Econ Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Econ Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGBE5960 - Agribusiness Economics Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGBE5970 - Agribusiness Economics Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGBE5980 - Agribusiness Economics Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agribusiness Economics Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGBE

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agribusiness economics under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGED5150 - Comm/Pub Rel-Ag & Extension Ed

General

College/School
Agriculture and Human Ecology

Course Title
Comm/Pub Rel-Ag & Extension Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5150

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Publics to be dealt with, public relations media, techniques of establishing and maintaining desirable communications and public relations in agriculture. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGED5200 - Meth/Techniq-Tch Ag & Ext Ed

General

College/School
Agriculture and Human Ecology

Course Title
Meth/Techniq-Tch Ag & Ext Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGED

Course Number
5200

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Theory and practice in directing learning activities. Planning and delivering instruction to formal and informal groups in Agricultural and Extension Education. Preparing instructional materials. Using instructional technology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGED5300 - Dev/Youth Programs-Ag & Ext Ed

General

College/School
Agriculture and Human Ecology

Course Title
Dev/Youth Programs-Ag & Ext Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Developing, implementing, and evaluating the 4-H and FFA youth programs in Agricultural and Extension Education. Identifying needs and interests of youth. Identifying, securing, and developing supportive resources. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGED5350 - Prog Pl & Eval/Ag & Extn Ed

General

College/School
Agriculture and Human Ecology

Course Title
Prog Pl & Eval/Ag & Extn Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced principles and procedures used in planning and evaluating Agricultural and Extension Education programs. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGED5940 - Agricultural Ed Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Ed Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of Agricultural Education under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements
Prerequisite: Consent of instructor.

AGED5950 - Agricultural Ed Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Ed Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of Agricultural Education under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements
Prerequisite: Consent of instructor.

AGED5960 - Agricultural Education Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of Agricultural Education under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGED5970 - Agricultural Education Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of Agricultural Education under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGED5980 - Agricultural Education Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Education Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGED

Course Number
5980

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Special study in an approved area of Agricultural Education under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET5220 - Agri Machinery/Tractors

General

College/School
Agriculture and Human Ecology

Course Title
Agri Machinery/Tractors

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGET

Course Number
5220

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Principles of operation, selection, and economic utilization of agricultural power units and equipment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Corequisite: AGET4225 Agri Machinery/Tractors Lab

Requirements
COREQUISITES
AGET5225

AGET5510 - Agricultural Remote Sensing

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Remote Sensing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGET

Course Number
5510

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course will teach the fundamentals of remote sensing concepts and software used in agricultural, environmental, and natural resource applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGET5520 - Agricultural Spatial Tech II

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Spatial Tech II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGET

Course Number
5520

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Principles and applications of geospatial technologies supporting precision agriculture/farming and planning for natural resource data management. Global positioning system (GPS), geographic information system (GIS), remote sensing (RS), yield monitoring and mapping, Internet information access, and computer software for management decisions.

Requisites

Simple Requirements

Prerequisite: AGET3520 Agricultural Spatial Technolog

AGET5540 - Adv GIS for Ag & Natural Rsrcs

General

College/School
Agriculture and Human Ecology

Course Title
Adv GIS for Ag & Natural Rsrcs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGET

Course Number
5540

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course will teach advanced techniques using Geographic Information System (GIS) concepts, equipment, and software used in agricultural, environmental, and natural resource applications.

Requisites

Simple Requirements

Prerequisite: AGET3540 Fund/GIS & GPS in AG & Nat Rsr or instructor consent.

AGET5610 - Grnhs Struct/Landscape Equip

General

College/School
Agriculture and Human Ecology

Course Title
Grnhs Struct/Landscape Equip

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5610

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Selection, design, construction, and operation of greenhouse structures and related nursery and landscaping equipment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGET5620 - Agricultural Structures

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Structures

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5620

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
Planning; drawing; materials; principles of construction with respect to arrangement, location, and environmental control; plan reading. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGET2110 Agricultural Engr Technologyor consent of instructor.

AGET5720 - Agricultural Processing

General

College/School
Agriculture and Human Ecology

Course Title
Agricultural Processing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5720

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Managing value-added agricultural products through the application of engineering principles to fluid flow, electrical controls, refrigeration, heat transfer, drying, and hydraulic systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

AGET5940 - Ag Engr Technology Topics

General

College/School
Agriculture and Human Ecology

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET5950 - Ag Engr Technology Topics

General

College/School
Agriculture and Human Ecology

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET5960 - Ag Engr Technology Topics

General

College/School
Agriculture and Human Ecology

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET5970 - Ag Engr Technology Topics

General

College/School
Agriculture and Human Ecology

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET5980 - Ag Engr Technology Topics

General

College/School
Agriculture and Human Ecology

Course Title
Ag Engr Technology Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGET

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agricultural engineering technology under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGET6200 - Smart Farming Technology

General

College/School
Agriculture and Human Ecology

Course Title
Smart Farming Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGET

Course Number
6200

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
The smart farming technology (SFT) relies on innovative ideas and technological advancements to help increase yields, minimize production cost, reduce environmental impact associated with agricultural operations, improve farm operational management and better allocate resources. The course is designed on the concept of smart agricultural machines and operations which is embedded with sensors – that are connected to the Internet, requires the understanding of embedded electronics, software, sensors, network, and data analytics.

Requisites

AGHE5600 - Global Food Sys: Sust & Insc

General

College/School
Agriculture and Human Ecology

Course Title
Global Food Sys: Sust & Insc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGHE

Course Number
5600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Relationships of global food systems to environmental and human health. Dynamics of societal issues, population, food production, biodiversity, biotechnology and economics on food insecurity.

Requisites

Simple Requirements

Prerequisites: None

AGHT5530 - Grnhs Crop Production

General

College/School
Agriculture and Human Ecology

Course Title
Grnhs Crop Production

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5530

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
Production, timing, harvesting, and marketing of bedding plants and floricultural crops grown in commercial greenhouses; nutrient film technique. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGHT4420 Greenhouse Production and Mgmt or consent of instructor.

AGHT5940 - Horticulture Topics

General

College/School
Agriculture and Human Ecology

Course Title
Horticulture Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGHT5950 - Horticulture Topics

General

College/School
Agriculture and Human Ecology

Course Title
Horticulture Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGHT5960 - Horticulture Topics

General

College/School
Agriculture and Human Ecology

Course Title
Horticulture Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGHT5970 - Horticulture Topics

General

College/School
Agriculture and Human Ecology

Course Title
Horticulture Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGHT5980 - Horticulture Topics

General

College/School
Agriculture and Human Ecology

Course Title
Horticulture Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGHT

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of horticulture under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGR5890 - Mtng Chlnges/Diverse Workplce

General

College/School
Agriculture and Human Ecology

Course Title
Mtng Chlnges/Diverse Workplce

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
5890

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
This course is designed as an upper division, work-world preparation course. As students ready to leave the relative safety of the cocooned worlds of their chosen disciplines, this course provides practical tools and information necessary to succeed in a diverse and changing world of work. By combining interactive learning, current and relevant readings, and key presenters the course will help completers integrate more smoothly into the next phase of their lives.

Requisites

Simple Requirements

Prerequisites: None

AGR6010 - Agroecology

General

College/School
Agriculture and Human Ecology

Course Title
Agroecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
This course is designed to introduce various topics of agroecology including traditional and organic farming, plant and animal production, pest management, and sustainable practices found regionally, nationally, and globally.

Requisites

AGR6100 - Fdns of Sust Agr in Modn Soc

General

College/School
Agriculture and Human Ecology

Course Title
Fdns of Sust Agr in Modn Soc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
A baseline view of Sustainable Agriculture and its effect on marketing, community vitality, ecological insect and weed management, grazing, conservation tillage, cover crops, crop, livestock and landscape diversity, nutrient management of soils, on-farm energy conservation and production from a whole farm perspective.

Requisites

AGR6120 - Agriscience Tech Colloquium I

General

College/School
Agriculture and Human Ecology

Course Title
Agriscience Tech Colloquium I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6120

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Colloquium is a weekly forum for students, faculty, and other interested member of the TN Tech community to engage with speakers on sustainable agriculture topics. Colloquium provides students and opportunity to learn about the areas that impact the study of agricultural sustainability and to engage with multiple stake holders in the study, business, and practice surrounding sustainable agriculture.

Requisites

AGR6121 - Agriscience Tech Colloquium II

General

College/School
Agriculture and Human Ecology

Course Title
Agriscience Tech Colloquium II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6121

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Colloquium is a weekly forum for students, faculty, and other interested member of the TN Tech community to engage with speakers on sustainable agriculture topics. Colloquium provides students and opportunity to learn about the areas that impact the study of agricultural sustainability and to engage with multiple stake holders in the study, business, and practice surrounding sustainable agriculture. Colloquium II students will present research or project results.

Requisites

AGR6300 - Research Methods for Agriscience Technology

General

College/School
Agriculture and Human Ecology

Course Title
Rsch Mthd for Agriscience Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6300

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Discussion of hypotheses testing, appropriate design of agricultural and natural resource experiments to derive desired inference from results, and statistical designs for analysis of discreet and continuous data.

Requisites

Simple Requirements

Prerequisite: MATH1530 Introductory Statistics or equivalent.

AGR6960 - Spl Topics in Agriscience Tech

General

College/School
Agriculture and Human Ecology

Course Title
Spl Topics in Agriscience Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGR

Course Number
6960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Course Description
Special study in an approved area of agriscience technology under the supervision of a member of the School of Agriculture faculty. The class will incorporate all aspects of restoring a 1956 Massey-Ferguson TO-35 tractor. Students will learn about power generation from engines and the processes required to overhaul and refinish the sheet metal parts of the engine.

Requisites

AGR6990 - Research & Thesis

General

College/School
Agriculture and Human Ecology

Course Title
Research & Thesis

Academic Level (Course Level)
Graduate

Course Subject Code
AGR

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
This course provides supervised academic credit for students conducting original research and completing requirements toward a graduate thesis. Students engage in scholarly activities including research design, data collection, analysis, interpretation, and thesis preparation under the direction of their major professor and graduate advisory committee. This course supports the development of independent research skills, scientific communication, and professional scholarship consistent with graduate program expectations.

Requisites

Simple Requirements

Prerequisite: None

AGRN5100 - Weed Science

General

College/School
Agriculture and Human Ecology

Course Title
Weed Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5100

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
Plant and seed identification, and growth habits and dissemination of weeds. Biological, cultural, and chemical methods of control in the integrated pest management (IPM) concept. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGRN1100 Plant Scienceand AGRN1110 Plant Science Laboratoryor consent of instructor.

AGRN5120 - Crop Improvement

General

College/School
Agriculture and Human Ecology

Course Title
Crop Improvement

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5120

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Objectives, genetic principles, and methods of crop improvement by conventional and genetic engineering methods. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGRN1100 Plant Science and AGRN1110 Plant Science Laboratory or consent of instructor.

AGRN5130 - Forage Crops Prod & Mgmt

General

College/School
Agriculture and Human Ecology

Course Title
Forage Crops Prod & Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
AGRN

Course Number
5130

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Botany and classification, soil and climatic requirements, species adaptation, establishment and management of grasses and legumes for silage, hay, and temporary, permanent, and rotational pastures for ruminants, swine, and horses.

Requisites

Simple Requirements

Prerequisite: AGRN1100 Plant Science, AGRN1110 Plant Science Laboratory, AGRN2300 Soils, and AGRN2310 Soil Chemical Properties.

AGRN5210 - Soil Fertility & Fertilizers

General

College/School
Agriculture and Human Ecology

Course Title
Soil Fertility & Fertilizers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5210

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Properties of soils in relation to plant nutrition; fertilizer materials and their relationship to soil fertility. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGRN3000 Soils or consent of instructor.

AGRN5220 - Environmental Soil Chem

General

College/School
Agriculture and Human Ecology

Course Title
Environmental Soil Chem

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5220

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Study of chemical composition of natural and anthropogenic material in soil and their reactions and movement in the soil environment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGRN2210 Soils or consent of instructor.

AGRN5230 - Soil Classification

General

College/School
Agriculture and Human Ecology

Course Title
Soil Classification

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5230

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
Soil formation, morphology, and classification; methods of soil survey, and detailed mapping of an assigned area. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: AGRN2210 Soils or consent of instructor.

AGRN5940 - Agronomy Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agronomy Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5945 - Soil Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Soil Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5945

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5950 - Agronomy Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agronomy Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5955 - Soil Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Soil Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5955

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5960 - Agronomy Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agronomy Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5965 - Soil Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Soil Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5965

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5970 - Agronomy Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agronomy Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5975 - Soil Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Soil Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5975

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5980 - Agronomy Topics

General

College/School
Agriculture and Human Ecology

Course Title
Agronomy Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of agronomy under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AGRN5985 - Soil Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Soil Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
AGRN

Course Number
5985

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approve area of soil science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

AI5200 - Deep Learning

General

College/School
Engineering

Course Title
Deep Learning

Academic Level (Course Level)
Graduate, Undergraduate, Doctoral

Course Subject Code
AI

Course Number
5200

Credit Hours

Credit Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: CSC 4220 or Consent of Instructor
An advanced and practical exploration of deep learning, covering mathematical foundations and applied skills to design, implement, train, evaluate, and deploy a variety of deep neural networks - including ANNs, LSTMs, GRUs, residual CNNs, Transformers, and others. Coursework will prioritize hands-on coding - utilizing high-performance computing resources with an emphasis on applying deep learning to real-world datasets.

Beyond the 4200 course, 5200 will require students to read 2 research papers and attempt to replicate the results of an appropriate research paper – or similar based on instructor preference.

Requisites

Simple Requirements

Prerequisite: CSC 4220 or Consent of Instructor

ANS5940 - Animal Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Animal Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANS

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ANS5950 - Animal Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Animal Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANS

Course Number
5950

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
4

Course Description
Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ANS5960 - Animal Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Animal Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANS

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ANS5970 - Animal Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Animal Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANS

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ANS5980 - Animal Science Topics

General

College/School
Agriculture and Human Ecology

Course Title
Animal Science Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANS

Course Number
5980

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Special study in an approved area of animal science under the supervision of a member of the School of Agriculture faculty. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ANTH5040 - Law and Culture

General

College/School
Arts and Sciences

Course Title
Law and Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANTH

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

ANTH5910 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANTH

Course Number
5910

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: Consent of instructor.

ANTH5960 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ANTH

Course Number
5960

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: Consent of instructor.

ART5100 - Art Tour

General

College/School
Fine Arts

Course Title
Art Tour

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ART

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A 1-2 week trip to view internationally recognized art. A term paper is required. May be repeated for credit if trip is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ART1030 Art Appreciation, ART2110 Art History I, ART2120 Art History II, ART3130 Art Since 1900, ART3150 History of Crafts, or ART3160 History of Crafts II, or consent of instructor.

ART5140 - Art Theory

General

College/School
Fine Arts

Course Title
Art Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ART2110 Art History I, ART2120 Art History II, and ART3130 Art Since 1900, or consent of instructor.

ART5540 - Special Problems in Clay

General

College/School
Fine Arts

Course Title
Special Problems in Clay

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5540

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Permission of the instructor.

ART5640 - Special Problems in Fibers

General

College/School
Fine Arts

Course Title
Special Problems in Fibers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5640

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Permission of the instructor.

ART5740 - Special Problems in Glass

General

College/School
Fine Arts

Course Title
Special Problems in Glass

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5740

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Permission of the instructor.

ART5840 - Special Problems in Metal

General

College/School
Fine Arts

Course Title
Special Problems in Metal

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5840

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Permission of the instructor.

ART5940 - Special Problems in Wood

General

College/School
Fine Arts

Course Title
Special Problems in Wood

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
5940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Permission of the instructor.

ART6030 - Graduate Seminar-Crafts

General

College/School
Fine Arts

Course Title
Graduate Seminar-Crafts

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6030

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6070 - Ind Study-Art/Craft History

General

College/School
Fine Arts

Course Title
Ind Study-Art/Craft History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6070

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available

Requisites

Simple Requirements

Prerequisites: None

ART6120 - Practicum in Ceramics

General

College/School
Fine Arts

Course Title
Practicum in Ceramics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6120

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6121 - Practicum in Ceramics

General

College/School
Fine Arts

Course Title
Practicum in Ceramics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6121

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6180 - Ind Studies Crafts/Clay

General

College/School
Fine Arts

Course Title
Ind Studies Crafts/Clay

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6180

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6220 - Practicum in Fibers

General

College/School
Fine Arts

Course Title
Practicum in Fibers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6220

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6221 - Practicum in Fibers

General

College/School
Fine Arts

Course Title
Practicum in Fibers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6221

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6280 - Ind Studies Crafts/Fibers

General

College/School
Fine Arts

Course Title
Ind Studies Crafts/Fibers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6280

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6320 - Practicum in Glass

General

College/School
Fine Arts

Course Title
Practicum in Glass

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6320

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6321 - Practicum in Glass

General

College/School
Fine Arts

Course Title
Practicum in Glass

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6321

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6380 - Ind Studies Crafts/Glass

General

College/School
Fine Arts

Course Title
Ind Studies Crafts/Glass

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6380

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

ART6420 - Practicum in Metals

General

College/School
Fine Arts

Course Title
Practicum in Metals

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6420

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6421 - Practicum in Metals

General

College/School
Fine Arts

Course Title
Practicum in Metals

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6421

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6480 - Ind Studies Crafts/Metals

General

College/School
Fine Arts

Course Title
Ind Studies Crafts/Metals

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6480

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6520 - Practicum in Wood

General

College/School
Fine Arts

Course Title
Practicum in Wood

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6520

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

ART6521 - Practicum in Wood

General

College/School
Fine Arts

Course Title
Practicum in Wood

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6521

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ART6580 - Ind Studies Crafts/Wood

General

College/School
Fine Arts

Course Title
Ind Studies Crafts/Wood

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ART

Course Number
6580

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

ASTL6700 - Portfolio Development

General

College/School
TN eCampus Degree

Course Title
Portfolio Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ASTL

Course Number
6700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
ASTL 6700 Portfolio Development presents an overview of the portfolio as an authentic assessment tool utilized to document the scholarship of teaching. It introduces educators to the concept of using artifacts/products/teacher work samples as evidence of effective teaching and, then, expands this to include student work samples as supportive evidence of that effectiveness. The course emphasis is focused on collection and presentation of teacher developed instructional examples organized comprehensively to demonstrate the educator¿s abilities in six areas: planning and teaching, actual teaching, assessment and evaluation, learning environment, professional growth, and communication. Although the format of the professional portfolio will follow the National Board for Professional Teaching Standards requirements, the student may choose whether or not to submit the portfolio for National Board Certification.

Requisites

Simple Requirements

Prerequisites: None

ASTL6701 - Teacher as Learner

General

College/School
TN eCampus Degree

Course Title
Teacher as Learner

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6701

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ASTL6703 - Knowledge of the Learner

General

College/School
TN eCampus Degree

Course Title
Knowledge of the Learner

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6703

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ASTL6705 - Assessment of Learning

General

College/School
TN eCampus Degree

Course Title
Assessment of Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6705

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

ASTL6706 - Learning Instruction Strategy

General

College/School
TN eCampus Degree

Course Title
Learning Instruction Strategy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6706

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to examine learning theories and to study their influence on current instructional practices. Students will be asked to reflect on the metacognitive processes involved in the decision making phase of classroom instruction. The alignment of National Board for Professional Teaching Standards with personal instructional practices is questioned and will be studied.

Requisites

Simple Requirements

Prerequisites: None

ASTL6709 - Action Research

General

College/School
TN eCampus Degree

Course Title
Action Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6709

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
ASTL 5709/6709/7709 will empower classroom teachers to construct their own knowledge and to make it available to others for the benefit of all learners. This course is designed to help educators and other professionals understand the relationship between their own professional development and the process of improving the quality of pupils' and/or colleagues' learning. ASTL 5709/6709/7709 is part of the program of study leading to the Master of Education (M.Ed.) degree in the Regents Online Degree Program (RODP).

Requisites

Simple Requirements

Prerequisites: students must meet the following criteria:(1) Admitted into the RODP M.Ed. program (2) Prior to enrolling in this course, students must have completed ASTL 5700/6700/7700, ASTL 5701/6701/7701, ASTL 5721/6721/7721, ASTL 5703/6703/7703, ASTL 5723/6723/7723, ASTL 5705/6705/7705, ASTL 5706/6706/7706, ASTL 5725/6725/7725, and ASTL 5726/6726/7726.

ASTL6721 - Theory and Found of Dev Lit

General

College/School
TN eCampus Degree

Course Title
Theory and Found of Dev Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6721

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Literacy I will engage candidates in professional reading about, and discussions of, the following: the nature of learning, the nature of language, how human beings learn language, the differences between receptive and productive language, the nature of the reading process, the nature of the writing process, how children develop their native language, what the relationships are among learning one¿s `mother tongue¿ and learning to read and write that same language, what the typical stages are through which children pass as they develop literacy, and what some of the more obvious implications are for classroom instruction and assessment in reading and writing. This course lays the foundation for all further learning about the teaching of literacy. Among other assessment devices, candidates will take and pass a comprehensive examination to determine their grasp of the concepts for this course., Application of technology, diversity issues, and use of appropriate resources will be part of this literacy course.

Requisites

Simple Requirements

Prerequisite: An undergraduate course in reading.

ASTL6723 - Teaching Begin Literacy

General

College/School
TN eCampus Degree

Course Title
Teaching Begin Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6723

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
ASTL 5723/6723/7723 (Literacy II) will engage candidates in reading and discussions to explore theory, understand best practices, and implement best practices in literacy instruction grades PreK-3. It will begin with an exploration of theory and best practices for family literacy from the birth of a child to school age. Theory and best practices will be examined from entrance into school, preschool to kindergarten, followed by explorations of best practices for teaching reading and writing in the primary grates. Candidates will be expected to work with primary grade children as they attempt to understand and implement best practices in emergent and early literacy development.

Requisites

Simple Requirements

Prerequisites and Co-requisites: ASTL 5723/6723/7723 (Literacy II) is part of the program of study leading to the Master of Education (M.Ed.) degree in the Regents Online Degree Program (ROPD). Before enrolling in Literacy II, candidates must meet the following criteria: (1) Be admitted into the RODP M.Ed. program; and (2) have completed ASTL 5721, Theory and Foundation of Developmental Literacy.

ASTL6725 - Best Pract For Literacy Mid Gr

General

College/School
TN eCampus Degree

Course Title
Best Pract For Literacy Mid Gr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6725

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Literacy III will engage candidates in professional studies related to understanding and using best practice for continued literacy growth in the middle grades. This course reviews the characteristics of a comprehensive middle school reading program.

Requisites

Simple Requirements

Prerequisites: An undergraduate course in reading and ASTL 5721/6721/7721.

ASTL6726 - Diagnosing Literacy Prob K-8

General

College/School
TN eCampus Degree

Course Title
Diagnosing Literacy Prob K-8

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6726

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Diagnosing Literacy Problems K-8, Literacy IV will engage candidates in reading, discussions, and implementation of diagnostic tools and techniques in literacy for struggling students grades K-8. Students enrolled in the course are expected to give specified reading tests at least two students.

Requisites

Simple Requirements

Prerequisites and Corequisites: ASTL 5726/6726/7726 is part of the program of study leading to the Master of Education (M.Ed.) degree in the Regents Online Degree Program (RODP). Before enrolling in this course, students must meet the following criteria: (1) Admitted into the RODP M.Ed. program; (2) Completed ASTL 5721/6721/7721, Theory and Foundation of Developmental Literacy (Literacy I); (3) Completed ASTL 5723/6723/7723, Understanding and Implementing Best Practices in Teaching Beginning Literacy (Literacy II); and (4) Completed ASTL5725/6725/7725, Literacy lll. ASTL 5726/6726/7726,

ASTL6729 - Remed of Lit Prob K-8 (Lit V)

General

College/School
TN eCampus Degree

Course Title
Remed of Lit Prob K-8 (Lit V)

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ASTL

Course Number
6729

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
ASTL 5729/6729/7729 (Literacy V) will engage candidates in reading, discussions, metacognition and implementation of instructional strategies based on the data derived from the diagnostic tools employed with students in Literacy IV. These students will be struggling readers in grades K-8. (Issues related to improving student writing will also be presented and explored.)

Requisites

Simple Requirements

Prerequisites and Corequisites: ASTL 5729/6729/7729 is part of the program of study leading to the Master of Education (M.Ed.) degree in the Regents Online Degree Program (RODP). Before enrolling in ASTL 5723, students must meet the following criteria: (1) Admitted into the RODP M.Ed. program; (2) This is the final course in the M.Ed. program. Prior to enrolling in this course, students must have completed ASTL 5700/6700/7700, ASTL 5701/6701/7701, ASTL 5721/6721/7721, ASTL 5703/6703/7703, ASTL 5723/6723/7723, ASTL 5705/6705/7705, ASTL 5706/6706/7706, ASTL 5725/6725/7725, ASTL 5726/6726/7726, and ASTL 5709/6709/7709.

BIOL5000 - General Parasitology

General

College/School
Arts and Sciences

Course Title
General Parasitology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5000

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: BIOL 1114 and BIOL 3120 or BIOL 3130 or WFS 3120 or WFS 3130. Biology of animal agents and vectors of diseases with emphasis placed on medical parasitology and organisms that parasitize fish and wildlife species. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL1114 General Zoology and BIOL 3120 or BIOL3130 General Ecology or WFS3120 General Ecology or WFS3130 General Ecology.

BIOL5040 - Immunology

General

College/School
Arts and Sciences

Course Title
Immunology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to basic principles of cellular and molecular immunology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior standing.

BIOL5060 - Hormones & Chem Comm

General

College/School
Arts and Sciences

Course Title
Hormones & Chem Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A survey of hormones, their functions, and mechanisms of action in vertebrate animals including humans. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: BIOL 3140 and CHEM 1110 or CHEM 1210.

BIOL5070 - Vertebrate Development

General

College/School
Arts and Sciences

Course Title
Vertebrate Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5070

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: BIOL 1113 and BIOL 1123. Development of vertebrates from the origin of gametes through hatching or birth, including embryonic anatomy and physiology and events, mechanisms, facts, and theories influencing vertebrate development.

Requisites

Simple Requirements

Prerequisite: BIOL1113 General Biology I and BIOL1123 General Biology II.

BIOL5080 - Vertebrate Evolution

General

College/School
Arts and Sciences

Course Title
Vertebrate Evolution

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
5080

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Principles of evolutionary biology, introduction to geologic history, examination of the fossil record, overview of the evolution of all major vertebrate groups including those living and extinct.

Requisites

Simple Requirements

Prerequisite: BIOL 3010

Type
Prerequisite

BIOL5090 - Microbial Physiology

General

College/School
Arts and Sciences

Course Title
Microbial Physiology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
5090

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The course will serve as an introduction to the biochemistry of microorganisms. In the first 1/3 of the course we will learn what a cell is, how a cell makes macromolecules, and becomes two cells. In the next 1/3 of the course the bioenergetics of the cell will be discussed (how a cell starts with simple compounds and makes macromolecules). In the last 1/3 of the course we will learn about cells and how the interact with the outside world, and each other – microbial stress response, differentiation, biofilms, genetic exchange and how other cells affect the growth of the cell.

Requisites

Simple Requirements

Prerequisite: BIOL 3200 or BIOL 3230

Type
Prerequisite

BIOL5100 - Evolutionary biology

General

College/School
Arts and Sciences

Course Title
Evolutionary biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theories, evidences, principles, and examples of organic evolution. Emphasis on anatomical, chemical, ecological, geological, anthropological, and genetic factors. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: BIOL 3810 and BIOL 3130 or WFS 3130.

BIOL5110 - Microbial Evolution

General

College/School
Arts and Sciences

Course Title
Microbial Evolution

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Survey of microbial diversity and an in-depth evaluation of evolutionary mechanisms that lead to microbial speciation.

Requisites

Simple Requirements

Prerequisite: BIOL3200 General Microbiology or BIOL3230 Health Science Microbiology.

BIOL5120 - Protozoology

General

College/School
Arts and Sciences

Course Title
Protozoology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5120

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Diversity, ecology, and taxonomy of protozoa, and the importance of protozoa as agents of human disease and as model organisms for studying eukaryotic cell biology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3200 or BIOL 3230.

BIOL5130 - Environmental Microbiology

General

College/School
Arts and Sciences

Course Title
Environmental Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5130

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: BIOL 3200 or 3230. The function of microorganisms in the environment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3200 or 3230.

BIOL5140 - Pathogenic Bacteriology

General

College/School
Arts and Sciences

Course Title
Pathogenic Bacteriology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5140

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Common Bacterial pathogens will be reviewed, including: 1. How they cause disease; 2. Virulence factors and how they are identified and studied; and 3. Prevention of disease transmission. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL3200 General Microbiology or BIOL3230 Health Science Microbiology.

BIOL5150 - Molecular Genetics

General

College/School
Arts and Sciences

Course Title
Molecular Genetics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: BIOL 3810, CHEM 3005 or 3020. Molecular basis of inheritance with special emphasis on microorganisms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3810, CHEM 3005 or 3020.

BIOL5160 - Genetic Engineering Lab

General

College/School
Arts and Sciences

Course Title
Genetic Engineering Lab

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5160

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
2

Lab Hours

Lab Hours Min:
4

Course Description
Techniques of bacterial genetics and recombinant DNA methodology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite or corequisite: BIOL4150 Molecular Genetics

Requirements
COREQUISITES
BIOL4150

BIOL5170 - Population/Conserv Genetics

General

College/School
Arts and Sciences

Course Title
Population/Conserv Genetics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to empirical and theoretical conservation genetics. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL1114 General Zoology and BIOL 3810.

BIOL5190 - Molecular Signal Integration

General

College/School
Arts and Sciences

Course Title
Molecular Signal Integration

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
5190

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
As signal perception is well studied in plants, students will use plants as a model to explore how organisms perceive external and internal cues such as light or nutrition, describe how environment alters developmental programing within the cell, and use molecular mechanisms to develop hypotheses on the impacts of a changing environment on development and/or behavior. In this course, students will gain working knowledge of the cues to which organisms respond, protein and gene regulation, cellular signal integration, and existing tools that scientists use to explore such questions.

Requisites

Simple Requirements

Prerequisite: BIOL 2310 and BIOL 3140

BIOL5200 - Plant Developmental Morphology

General

College/School
Arts and Sciences

Course Title
Plant Developmental Morphology

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5200

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
5

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: BIOL 2310. Study of developmental processes that shape the form and structure of plants

Requisites

Simple Requirements

Prerequisite: BIOL 2310

BIOL5210 - Biological Systems Modeling

General

College/School
Arts and Sciences

Course Title
Biological Systems Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5210

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Introduction to process-based models and all aspects of the model life cycle: equation generation, parameterization, evaluation, and utilization.

Requisites

Simple Requirements

Prerequisites: None

BIOL5220 - Biostatistics

General

College/School
Arts and Sciences

Course Title
Biostatistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability and frequency distribution; statistical populations and samples; and tests of hypotheses used in biological research. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: MATH 1530 or MATH1830 Applied Calculus.

BIOL5230 - Animal Behavior

General

College/School
Arts and Sciences

Course Title
Animal Behavior

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to basic principles underlying the behavior of animals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior standing.

BIOL5240 - Systematic Botany

General

College/School
Arts and Sciences

Course Title
Systematic Botany

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5240

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
A general survey of vascular plants with emphasis on identification, naming, nomenclature, and classification of the vascular flora of Tennessee. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3240.

BIOL5250 - Economic Botany

General

College/School
Arts and Sciences

Course Title
Economic Botany

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5250

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Interrelationships between plants and people. Topics include a survey of the past, present, and future uses of plants, and the role of conservation biology in the preservation of plant resources. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 2110 or consent of instructor.

BIOL5300 - Plant Speciation/Evolution

General

College/School
Arts and Sciences

Course Title
Plant Speciation/Evolution

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of the evolution of plants at the micro- and macroevolution levels, including a survey of relevant primary and secondary literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 2110 or consent of instructor.

BIOL5310 - Plant Anatomy

General

College/School
Arts and Sciences

Course Title
Plant Anatomy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5310

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: BIOL2110 and 8 semester hours of biology. A comparative study of the structure of vascular plants in relation to function. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL2110 and 8 semester hours of biology

BIOL5320 - Plant Physiology

General

College/School
Arts and Sciences

Course Title
Plant Physiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5320

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Physiological activities of seed plants, including photosynthesis, respiration, mineral nutrition, flowering, seed formation, and dormancy. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

BIOL5330 - Plant Ecology

General

College/School
Arts and Sciences

Course Title
Plant Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5330

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Biotic and abiotic factors affecting the distribution and abundance of plant species and the role of plants in ecosystem structure and function. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 2110 and WFS3130 General Ecology.

BIOL5340 - Plant-Animal Interactions

General

College/School
Arts and Sciences

Course Title
Plant-Animal Interactions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5340

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Interactions of plants and animals in aquatic, terrestrial, and atmospheric environments at various ecological scales. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 2110 and junior standing.

BIOL5350 - Restoring Resilient Ecosystems

General

College/School
Arts and Sciences

Course Title
Restoring Resilient Ecosystems

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
5350

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Plant communities shape the microbial and animal communities present in a locale and provide a host of ecosystems services valuable to humans. How can scientists and practitioners ensure plant communities retain function long term and are resilient to environmental change? In this course students will explore the pre-Columbian human land-use practices that have shaped our current ecosystems, as well as modern considerations of genetic provenance and functional traits of plants selected for restoration efforts. Students will also analyze resent restoration efforts and communicate with practitioners and restoration scientists, such that they leave with a list of best practices.

Requisites

Simple Requirements

Prerequisite or Co-requisite: BIOL 4330

BIOL5430 - Vascular Plant Biology

General

College/School
Arts and Sciences

Course Title
Vascular Plant Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5430

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: BIOL 2110. Morphological and phylogenetic survey of the vascular plants. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

BIOL5610 - Invertebrate Zoology

General

College/School
Arts and Sciences

Course Title
Invertebrate Zoology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5610

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Biology of invertebrates with emphasis on morphology, systematics, and ecology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology or consent of instructor. WFS3120 General Ecology

BIOL5630 - Ornithology

General

College/School
Arts and Sciences

Course Title
Ornithology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5630

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: 8 semester hours of biology. General survey of the class Aves with emphasis on morphology, identification, and ecology of local birds. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

BIOL5650 - Marine Biology

General

College/School
Arts and Sciences

Course Title
Marine Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5650

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: BIOL 3130 or WFS 3130. An introduction to the study of the marine environment and marine organisms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL3130 General Ecology or WFS3130 General Ecology.

BIOL5740 - Pollution Microbiology

General

College/School
Arts and Sciences

Course Title
Pollution Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to microbes, waterborne pathogens, water disinfection practices, effects of chemical pollutants, microbial detoxification and biodegradation mechanisms, genetic breeding, and bioassay/toxicity testing. Demonstration labs are included. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

BIOL5750 - Medical Microbiology

General

College/School
Arts and Sciences

Course Title
Medical Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5750

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Prerequisite: BIOL 3200 or 3230. A survey of microorganisms of medical importance, with emphasis on the bacteria and viruses. Principles of infectious diseases, including diagnostic methods and treatments. Laboratory exercises demonstrating methods of isolating and identifying pathogenic microorganisms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL3200 General Microbiology or BIOL3230 Health Science Microbiology.

BIOL5770 - Mycology

General

College/School
Arts and Sciences

Course Title
Mycology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
5770

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces the study of fungi, beginning with an exploration of fungal diversity, biology, physiology, and genetics from a biological perspective. Students will then examine the interactions of fungi with other organisms and explore their industrial applications. The course covers both theoretical and practical aspects, preparing students to engage with fungal biology in various contexts, whether through research, industry, or education. The course is structured to allow students to work at a level of complexity that aligns with their background and interests.

Requisites

Simple Requirements

Prerequisite: BIOL 3200 or BIOL 3230

Type
Prerequisite

BIOL5780 - Phycology

General

College/School
Arts and Sciences

Course Title
Phycology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5780

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Introduction to freshwater algae. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

BIOL5810 - Ichthyology

General

College/School
Arts and Sciences

Course Title
Ichthyology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5810

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: 8 semester hours of biology. Identification, classification, anatomy, physiology, ecology, and adaptations of fishes; emphasis on North American freshwater species. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

BIOL5820 - Mammalogy

General

College/School
Arts and Sciences

Course Title
Mammalogy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5820

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Classification, structure and function, phylogeny, and geographical distribution of mammals; emphasis on Tennessee mammals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

BIOL5830 - Herpetology

General

College/School
Arts and Sciences

Course Title
Herpetology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5830

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: 8 semester hours of biology. Classification, adaptations, habits, life histories, and geographical distribution of amphibians and reptiles; emphasis on North American species. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

BIOL5840 - Limnology

General

College/School
Arts and Sciences

Course Title
Limnology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5840

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Physiochemical and biological dynamics of inland waters. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology and chemistry, Junior standing, or consent of instructor.

BIOL5850 - Applied Microbiology

General

College/School
Arts and Sciences

Course Title
Applied Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5850

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Microbial production of foods and chemicals; microorganisms in food spoilage. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3110 or 3130 or consent of instructor.

BIOL5860 - Disease Prevention

General

College/School
Arts and Sciences

Course Title
Disease Prevention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5860

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Mechanisms of disease transmission, persistence of pathogens, and infection control.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing

BIOL5880 - Bioethics

General

College/School
Arts and Sciences

Course Title
Bioethics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5880

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to the field of bioethics focusing on practical applications of ethical principles related to healthcare, medical science, and medical technology.

Requisites

Simple Requirements

Prerequisites: Junior Standing

BIOL5890 - Histology

General

College/School
Arts and Sciences

Course Title
Histology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5890

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
1

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
A detailed study of the microscopic structure of human tissues along with their cellular components, the methods used to prepare tissue samples for microscopy, and various common staining techniques.

Requisites

Simple Requirements

Prerequisites: BIOL1113 General Biology I and BIOL1123 General Biology II or BIOL2010 Human Anatomy & Physiology I.

BIOL5940 - Radiation Biology

General

College/School
Arts and Sciences

Course Title
Radiation Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Effects of ionizing radiation on biological systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior standing or consent of departmental chairperson.

BIOL5950 - Radiation Biology Seminar

General

College/School
Arts and Sciences

Course Title
Radiation Biology Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5950

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
In-depth discussion of specific topics in radiation biology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 4940.

BIOL5960 - Biotechnology Seminar

General

College/School
Arts and Sciences

Course Title
Biotechnology Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
5960

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Prerequisite: BIOL 4150 or consent of instructor. Discussion of current literature in biotechnology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

BIOL5990 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

BIOL5991 - Advanced Topics

General

College/School
Arts and Sciences

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5991

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisite: Consent of instructor and departmental chairperson. Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

BIOL5992 - Advanced Topics

General

College/School
Arts and Sciences

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5992

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

BIOL5993 - Advanced Topics

General

College/School
Arts and Sciences

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5993

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

BIOL5994 - Advanced Topics

General

College/School
Arts and Sciences

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
5994

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

BIOL6060 - Aquatic Toxicology

General

College/School
Arts and Sciences

Course Title
Aquatic Toxicology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6060

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
A study of the mechanisms of toxicity in terrestrial and aquatic organisms, including the measurement of response, uptake, metabolism, and excretion of toxicants. Design and interpretation of toxicity tests, hazard evaluation, risk assessment, and toxics reduction plans. Fate and transport processes and advanced approaches in automated, computer-assisted monitoring will be evaluated. Environmental policy and laws of national and international concern will be addressed.

Requisites

Simple Requirements

Prerequisite: BIOL 3530 and CHEM 3010 and 3020.

BIOL6100 - Advanced Microscopy

General

College/School
Arts and Sciences

Course Title
Advanced Microscopy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6100

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
6

Billing Hours

Billing Hours Min :
3

Lab Hours

Lab Hours Min:
6

Course Description
An applied course in the use and maintenance of research-grade microscopes and various optical systems. Topics also include computer image analysis, confocal laser scanning microscopy, photography, calibration, and measurement.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

BIOL6120 - Fishery Science

General

College/School
Arts and Sciences

Course Title
Fishery Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6120

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Current concepts and practices of fishery science, especially those environmentally related.

Requisites

Simple Requirements

Prerequisite: WFS 4710 or WFS5710 Fisheries Management.

BIOL6130 - Advanced Fisheries Mgmt

General

College/School
Arts and Sciences

Course Title
Advanced Fisheries Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6130

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
An in-depth analysis of major historical developments in the theory and techniques of freshwater fisheries management.

Requisites

Simple Requirements

Prerequisite: WFS 4710 or WFS5710 Fisheries Management.

BIOL6140 - Fish & Wildlife Biometrics

General

College/School
Arts and Sciences

Course Title
Fish & Wildlife Biometrics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6140

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Study and application of quantitative methods used to assess fish and wildlife populations. Estimation of parameters, hypothesis testing, and use of classical fisheries and wildlife statistical techniques.

Requisites

Simple Requirements

Prerequisite: WFS 4710 (WFS5710 Fisheries Management) and BIOL 4220 (5220) or equivalents.

BIOL6150 - Reservoir Fisheries Mgmt

General

College/School
Arts and Sciences

Course Title
Reservoir Fisheries Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6150

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
A comprehensive introduction to basic and applied aspects of managing fisheries in man-made impoundments.

Requisites

Simple Requirements

Prerequisites: None

BIOL6160 - Cytogenetics

General

College/School
Arts and Sciences

Course Title
Cytogenetics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6160

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Normal and abnormal chromosome structure, crossing over, and control of gene action in eukaryotes.

Requisites

Simple Requirements

Prerequisite: BIOL 3810 and one year of Chemistry.

BIOL6220 - Cytology

General

College/School
Arts and Sciences

Course Title
Cytology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6220

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Study of the cell and its components

Requisites

Simple Requirements

Prerequisite: BIOL 3140 and CHEM 3010 and 3020.

BIOL6310 - Biological Literature

General

College/School
Arts and Sciences

Course Title
Biological Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6310

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
A survey of literature resources, experimental design, report writing, and rules adopted by the Council of Biological Editors.

Requisites

Simple Requirements

Prerequisites: None

BIOL6350 - Mgmt of Wetland Wildlife

General

College/School
Arts and Sciences

Course Title
Mgmt of Wetland Wildlife

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6350

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Ecology and management of wildlife species occurring in wetland habitats, emphasis on waterfowl and southeastern fauna.

Requisites

Simple Requirements

Prerequisite: WFS 4700 or WFS5700 Habitat Management.

BIOL6360 - Wetland Ident & Assessment

General

College/School
Arts and Sciences

Course Title
Wetland Ident & Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6360

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Advanced concepts of the physical, chemical, and biological properties of wetlands and how hydrology and geomorphology interact to create wetland ecosystems. Field techniques for distinguishing wetlands from non-wetlands and for assessing functional capacity of wetland ecosystems will be covered.

Requisites

Simple Requirements

Prerequisite: BIOL6350 Mgmt of Wetland Wildlife.

BIOL6370 - Mgmt of Upland Wildlife

General

College/School
Arts and Sciences

Course Title
Mgmt of Upland Wildlife

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6370

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Ecology and management of wildlife species occurring in upland habitats, emphasis on southeastern fauna.

Requisites

Simple Requirements

Prerequisites: None.

BIOL6420 - Water Resources Mgmt Seminar

General

College/School
Arts and Sciences

Course Title
Water Resources Mgmt Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6420

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Current problems and research in water resources management.

Requisites

Simple Requirements

Prerequisites: None.

BIOL6500 - Biological Photography

General

College/School
Arts and Sciences

Course Title
Biological Photography

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6500

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Photographic principles applied to biological materials; photomicrography and photomacrography; preparation of black and white prints for publication and slides for presentation.

Requisites

Simple Requirements

Prerequisites: None

BIOL6600 - Microbial Ecology

General

College/School
Arts and Sciences

Course Title
Microbial Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6600

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Topics will include role of microorganisms in nutrient cycling, techniques in sampling, enumeration, and activity measurements, distribution of microorganisms, diversity and adaptation, and microbial interactions including competition, symbioses, and predation.

Requisites

Simple Requirements

Prerequisite: BIOL 3200 or BIOL 3230 or BIOL 4130 or BIOL5130 Environmental Microbiology.

BIOL6630 - Animal Ecology

General

College/School
Arts and Sciences

Course Title
Animal Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6630

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
The relationship between animals and their environment; the structure, processes, and distribution of animal communities.

Requisites

Simple Requirements

Prerequisites: None

BIOL6640 - Stream Ecology

General

College/School
Arts and Sciences

Course Title
Stream Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6640

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Concepts in water chemistry and physics, hydrology, and sediments of lotic systems and their influences on ecological relationships. Stream production, metabolism, and energy flux relative to river continuum concepts will be emphasized through field studies and report preparation.

Requisites

Simple Requirements

Prerequisites: None

BIOL6650 - Physiological Ecology

General

College/School
Arts and Sciences

Course Title
Physiological Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6650

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Advanced concepts in ecological structure and function and how they are governed by physiological processes. Resource utilization, mineral and nutrient cycling, and energy flux in maintenance, production, and reproduction of ecological population and communities will be addressed. Applications and tests of relevant approaches to data acquisition, processing, and interpretation are emphasized. Remote sensing technologies are included.

Requisites

Simple Requirements

Prerequisite: BIOL 3530 and CHEM 3010 and CHEM 3020.

BIOL6660 - Fish Ecology

General

College/School
Arts and Sciences

Course Title
Fish Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6660

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Principles of the evolutionary ecology of fishes, including reproductive guilds, morphological and behavioral polymorphism, foraging, habitat selection, intraspecific and interspecific interactions, and stability of fish assemblages.

Requisites

Simple Requirements

Prerequisite: WFS 4710 or WFS5710 Fisheries Management.

BIOL6670 - Stream Ecology

General

College/School
Arts and Sciences

Course Title
Stream Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6670

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Concepts in water chemistry and physics, hydrology, and sediments of lotic systems and their influences on ecological relationships. Stream production, metabolism, and energy flux relative to river continuum concepts will be emphasized through field studies and report preparation.

Requisites

BIOL6680 - Malacology

General

College/School
Arts and Sciences

Course Title
Malacology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
6680

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Identification, classification, and ecology of freshwater bivalves. Emphasis on ecology of Ohio River basin species.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

BIOL6700 - Current Topics/Microbiology

General

College/School
Arts and Sciences

Course Title
Current Topics/Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6700

Credit Hours

Credit Hours Min :
2

Contact Hours

Contact Hours Min :
2

Billing Hours

Billing Hours Min :
2

Lecture Hours

Lecture Hours Min:
2

Course Description
Discussion and literature search of current issues in medical and environmental microbiology, including scientific ethics, biotechnology issues, science, and politics.

Requisites

Simple Requirements

Prerequisites: None

BIOL6810 - Ecological Ordination

General

College/School
Arts and Sciences

Course Title
Ecological Ordination

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
6810

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Application of multivariate statistics in the study of ecology.

Requisites

Simple Requirements

Prerequisites: None

BIOL6930 - Seminar

General

College/School
Arts and Sciences

Course Title
Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6930

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
2

Billing Hours

Billing Hours Min :
1

Course Description
Current literature in biology and presentation of current or completed graduate research.

Requisites

Simple Requirements

Prerequisites: None

BIOL6960 - Molecular Biology Seminar

General

College/School
Arts and Sciences

Course Title
Molecular Biology Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BIOL

Course Number
6960

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Critical review and presentation of current research from molecular biology literature.

Requisites

Simple Requirements

Prerequisites: None

BIOL6980 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BIOL

Course Number
6980

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
8

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Lab Hours

Lab Hours Min:
2

Lab Hours Max:
8

Course Description
Prerequisite: Consent of instructor. Special study in an approved field under the supervision of a member of the graduate faculty as approved by the departmental chairperson.

Requisites

BIOL6990 - Research and Thesis

General

College/School
Arts and Sciences

Course Title
Research and Thesis

Academic Level (Course Level)
Graduate

Course Subject Code
BIOL

Course Number
6990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
9

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
9

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
9

Requisites

BIOL7010 - Integrative Biology

General

College/School
Arts and Sciences

Course Title
Integrative Biology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Provides a comprehensive theoretical and conceptual foundation for the study of biological systems across multiple scales of organization, examining the fundamental principles underlying the integration of molecular, cellular, physiological, ecological, and evolutionary processes. Students explore biological organization, emergent properties, and hierarchical systems theory as they apply to living systems across multiple levels of analysis. Special attention is given to the theoretical frameworks that enable researchers to move fluidly between molecular, organismal, and ecosystem perspectives when formulating research questions and interpreting empirical findings.

Requisites

Simple Requirements

Prerequisite: Graduate Standing

BIOL7210 - Scientific Leadership and Management

General

College/School
Arts and Sciences

Course Title
Scientific Leadership and Mgmt

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This professional development course equips graduate students with essential skills for success in academic and professional scientific careers. Students will develop competencies in networking, career preparation, stress management, productivity strategies, ethical conduct, peer review processes, and scientific communication for both professional and public audiences. The course emphasizes leadership development, research project management, and understanding diverse career pathways in the sciences.
Prerequisite: Graduate standing.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BIOL7250 - Spatial and Landscape Ecology

General

College/School
Arts and Sciences

Course Title
Spatial and Landscape Ecology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BIOL

Course Number
7250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces students to fundamental concepts in spatial and landscape ecology, with emphasis on understanding how landscape complexity and spatial arrangement influence animal behavior, resource availability, and predation risk. Students will gain hands-on experience measuring spatial metrics at individual and landscape scales using program R, covering topics including space use, habitat selection, occupancy modeling, and movement ecology.
Prerequisite: Graduate standing.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BIOL7270 - Advanced Bioinformatics

General

College/School
Arts and Sciences

Course Title
Advanced Bioinformatics

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7270

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course provides skills for analyzing Next Generation Sequencing data through advanced computational workflows in high-performance computing environments. Students learn to integrate multi-omics datasets, apply machine learning methods, and develop reproducible pipelines using version control systems. The course emphasizes scientific principles of workflow reproducibility, scalability, and biological interpretation.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BIOL7310 - Population Genetics

General

College/School
Arts and Sciences

Course Title
Population Genetics

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course examines genetic structure of populations and evolutionary forces shaping genetic variation over time. Students conduct hands-on analyses using real datasets, covering Hardy-Weinberg equilibrium, population structure, coalescent theory, and natural selection. Practical skills include using molecular and bioinformatic tools such as SNP genotyping, RNA sequencing, and eDNA metabarcoding.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BIOL7340 - Advanced Virology and Epidemiology

General

College/School
Arts and Sciences

Course Title
Adv. Virology and Epidemiology

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course explores infectious disease epidemiology using viruses as model organisms, examining viral classification, host interactions, and transmission dynamics. Students learn to trace disease sources, identify risk factors, and track pandemic spread through genomic epidemiology and surveillance design. Topics include measures of disease frequency, bias assessment, and in-vitro and in-silico methods for studying viral epidemiology.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BIOL7440 - Signal Integration

General

College/School
Arts and Sciences

Course Title
Signal Integration

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Using plants as models, this course explores how organisms perceive environmental cues to alter cellular developmental programming. Students gain proficiency with molecular databases and data interpretation while learning to develop and test hypotheses about environmental impacts. Topics include gene regulation, transcription factors, non-coding RNAs, and cellular signal integration mechanisms.

Requisites

Simple Requirements

Prerequisite: Graduate standing

BIOL7470 - Scientific Systems Modeling

General

College/School
Arts and Sciences

Course Title
Scientific Systems Modeling

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces mathematical modeling for exploring complex biological systems using STELLA and R platforms. Students learn to parameterize and evaluate models, extract literature data, and link equations to simulate system dynamics. Final projects include research posters and runnable R Markdown descriptions with organized Github repositories.

Requisites

Simple Requirements

Prerequisite: Graduate standing

BIOL7990 - Research and Dissertation

General

College/School
Arts and Sciences

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Students are expected to undertake the activities agreed upon with their thesis advisor, which may include: mastering and recording research techniques and scientific processes, creating and defining hypotheses for investigation, evaluating data and outcomes, and sharing discoveries and their broader implications.

Requisites

Simple Requirements

Prerequisite: Graduate standing

BIOL7991 - Dissertation Research Seminar

General

College/School
Arts and Sciences

Course Title
Dissertation Research Seminar

Academic Level (Course Level)
Doctoral

Course Subject Code
BIOL

Course Number
7991

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
This capstone seminar provides Ph.D. students the opportunity to present dissertation research in a 50-minute public presentation. Students develop skills in scientific communication, organization of complex findings, and effective audience engagement. The course emphasizes professional delivery, visual aid design, and demonstration of subject matter mastery.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

BMGT5120 - Compensation Administration

General

College/School
Business

Course Title
Compensation Administration

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and practice of determining wages, salaries, and employee benefits. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BMGT3630 Human Resource Management.

BMGT5150 - Management & Organization

General

College/School
Business

Course Title
Management & Organization

Academic Level (Course Level)
Undergraduate

Course Subject Code
BMGT

Course Number
5150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamentals of management that permeate organizations, including studies of organizational environment, administrative structure, and organizational behavior.

Requisites

BMGT5410 - Conflict Mgmt/Negotiation

General

College/School
Business

Course Title
Conflict Mgmt/Negotiation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of interpersonal skills for managing conflict and negotiations in business. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Junior standing.

BMGT5520 - Applied Management Skills

General

College/School
Business

Course Title
Applied Management Skills

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An examination of behavioral concepts required for effective leadership within business organizations.

Requisites

Simple Requirements

Prerequisite: BMGT3510 Mgmt/Organizational Behavior and Junior standing.

BMGT5930 - Business Strategy

General

College/School
Business

Course Title
Business Strategy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
5930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A capstone course stressing management problem analysis, problem solving, and decision making. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BGMT3510, FIN 3210, MKT 3400, senior standing.

Corequisites: DS3520

BMGT6200 - Organizational Leadership

General

College/School
Business

Course Title
Organizational Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
BMGT

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An examination of behavioral concepts required for effective leadership within business organizations.

Requisites

Simple Requirements

Prerequisites: None

BMGT6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

Simple Requirements

Prerequisites: None

BMGT6950 - Business Strategy

General

College/School
Business

Course Title
Business Strategy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BMGT

Course Number
6950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ACCT 6010, FIN 6020, MKT 6100, and BMGT 6200. Students must have completed at least 27 credit hours in the MBA program or be enrolled in BMGT 6950 during their final semester. An integrative capstone course focused on the formulation and implementation of business-level and corporate-level strategies. Students learn to identify, analyze, and apply strategic management frameworks to understand how organizations create and sustain a competitive advantage in dynamic environments.

Requisites

Simple Requirements

Prerequisite: ACCT6010 Acct Info for Mgmt Decisions, FIN6020 Financial Management, MKT6100 Strategic Marketing, BMGT6200 Organizational Leadership.

Students must have completed at least 27 credit hours in the MBA program or be enrolled in BMGT 6950 during their final semester.

BSTA5030 - Biostats

General

College/School
Whitson-Hester School of Nurs

Course Title
Biostats

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
BSTA

Course Number
5030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

BSTA5310 - Biostatistics

General

College/School
Whitson-Hester School of Nurs

Course Title
Biostatistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
BSTA

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

CEE5130 - Matrix & Finite Element Method

General

College/School
Engineering

Course Title
Matrix & Finite Element Method

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Matrix formulations using flexibility and stiffness methods for structural analysis of skeletal structures. Finite element formulations and applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3320 Structural Mechanics CEE3320 or ME4640 Dynamics of Machinery II ME 4640 AND MATH2010 or MATH 4510

CEE5170 - Intro-Mechanics of Composites

General

College/School
Engineering

Course Title
Intro-Mechanics of Composites

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to mechanics of fibrous, laminated composites. Micromechanics, mechanical properties, stiffness and strength, and classical laminate theory. Thermal and moisture effects. Effective engineering properties of laminates. Failure theories, design criteria, and computational implementation.

Requisites

Simple Requirements

Prerequisite: CEE3110 Mechanics of Materials

CEE5190 - Adv Mechanics of Materials

General

College/School
Engineering

Course Title
Adv Mechanics of Materials

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5190

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced topics; fracture mechanics, elastic support, noncircular shafts, curved beams, thick-walled cylinders, introduction to plates, thin shells of revolution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3110 Mechanics of Materials, MATH2120 Differential Equations, or consent of instructor.

CEE5350 - Advanced Structural Design

General

College/School
Engineering

Course Title
Advanced Structural Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Special topics in analysis and design of steel structures. Plastic design, composite design, plate girders, special connections, and introduction to timber design. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE4310 Structural Steel Design.

CEE5360 - Adv Top/Struc Concrete Design

General

College/School
Engineering

Course Title
Adv Top/Struc Concrete Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Special topics in the design of concrete structures. Combined footings; retaining walls, two-way slabs, and prestressed concrete. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE4320 Reinforced Concrete Design.

CEE5370 - Masonry Design

General

College/School
Engineering

Course Title
Masonry Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5370

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Course Description
Masonry materials and construction. Design of masonry beams, walls, and columns. Seismic design of masonry structures.

Requisites

Simple Requirements

Prerequisite: CEE3030 Civil Engineering Materials and CEE4320 Reinforced Concrete Design.

CEE5380 - Bridge Design

General

College/School
Engineering

Course Title
Bridge Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5380

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Design of structural steel and reinforced concrete bridges. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE4310 Structural Steel Design.

CEE5390 - Bridge Design II

General

College/School
Engineering

Course Title
Bridge Design II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5390

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4380 (5380). Steel plate girder design; prestressed concrete girder design; bridge substructure design including multi-post piers, spread footings, point bearing piles, and friction piles.

Requisites

CEE5410 - Solid & Hazard Waste Mgmt

General

College/School
Engineering

Course Title
Solid & Hazard Waste Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The collection and disposal of solid wastes. Treatment and disposal technologies of hazardous wastes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE 3413 or consent of instructor.

CEE5420 - Engineering Hydrology

General

College/School
Engineering

Course Title
Engineering Hydrology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamental processes in the hydrologic cycle, including precipitation, infiltration, and runoff. Development of quantitative approaches for engineering hydrology problems such as watershed modeling and storm water analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3420 Hydraulics or consent of instructor.

CEE5430 - Water/Wastewater Engr

General

College/School
Engineering

Course Title
Water/Wastewater Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analytical methods for use in water quality management of streams, lakes, reservoirs, and groundwater systems. Project design of water and wastewater treatment plants. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3413 Environmental Engineering or consent of instructor.
CHEM 1120

CEE5440 - Water Resources Engineering

General

College/School
Engineering

Course Title
Water Resources Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Problems related to the planning and design of systems to manage water resources for flood-damage reduction, hydropower, and river navigation. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3420or consent of instructor.

CEE5450 - Water Quality Modeling

General

College/School
Engineering

Course Title
Water Quality Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical modeling of chemical and biological processes occurring in streams, lakes, and estuaries, emphasizing oxygen demand and nutrient processes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3413 Environmental Engineering or consent of instructor.
CHEM 1120

CEE5460 - Geospatial Model/Analysis Engr

General

College/School
Engineering

Course Title
Geospatial Model/Analysis Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 3600 and CEE 3420 or consent of instructor. GIS & spatial data models; projections and coordinate systems; maps data entry, editing & output; basic spatial analysis; GPS & GNSS; aerial & satellite images; terrain analysis; raster analysis; and spatial estimation.

Requisites

CEE5600 - Civil Engineering Materials II

General

College/School
Engineering

Course Title
Civil Engineering Materials II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5600

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Design and testing of high-strength Portland Concrete Cement, self-consolidating PCC, high volume fly ash PCC and pervious PCC. Controlled low-strength materials. Concrete formwork design. Masonry materials evaluation. Aggregate production and improvement. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE 3030.

CEE5610 - Pavement Design

General

College/School
Engineering

Course Title
Pavement Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Structural design of flexible and rigid pavements. Pavement rehabilitation. Properties of subgrades, base courses and paving materials. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3610 Transportation Engineering.

CEE5630 - Traffic Engineering

General

College/School
Engineering

Course Title
Traffic Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Techniques of traffic engineering measurements, investigations, and data analysis; design, application, and operation of traffic control systems and devices. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3610 Transportation Engineering.

CEE5640 - Highway Engineering

General

College/School
Engineering

Course Title
Highway Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and practice of highway geometric design; highway plans; construction practices; computer applications to highway design. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3610 Transportation Engineering.

CEE5660 - Transportation Planning

General

College/School
Engineering

Course Title
Transportation Planning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
System planning and evaluation. Characteristics, impacts and costs. User patterns. Alternative analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE3610 Transportation Engineering.

CEE5810 - Foundation Engineering

General

College/School
Engineering

Course Title
Foundation Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4800. Soil mechanics (emphasis on stress and shear strength), bearing capacity, magnitude and time-rate of consolidation, geotechnical design of shallow and deep foundations.

Requisites

Simple Requirements

Prerequisite: CEE 4800

CEE5820 - Retaining Walls & Excavations

General

College/School
Engineering

Course Title
Retaining Walls & Excavations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4800. Soil mechanics (emphasis on stress and shear strength), lateral earth pressure, excavation systems and anchorage, mechanically stabilized earth walls, geotechnical design of retaining walls and excavation support.

Requisites

CEE5850 - Forensic Engineering

General

College/School
Engineering

Course Title
Forensic Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Forensic case studies related to civil engineering.

Requisites

Simple Requirements

Prerequisite: CEE 4800 (CEE 4800 may be taken concurrently) and CEE4310 Structural Steel Design or CEE4320 Reinforced Concrete Design.

CEE5930 - Noise Control

General

College/School
Engineering

Course Title
Noise Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
5930

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Identification and description of noise sources and noise radiation, methods of noise measurement and criteria for noise levels, principles and techniques of noise and vibration control. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 2120, PHYS 2120, MATH 2120.

CEE5990 - Special Problems

General

College/School
Engineering

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
5990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Current topics in civil engineering. May not be repeated to improve a grade.

Requisites

Simple Requirements

Prerequisite: Approval of Departmental Chairperson.

CEE6040 - Intermediate Fluid Mechanics

General

College/School
Engineering

Course Title
Intermediate Fluid Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Formulation of mass and momentum transfer equations; exact solutions of laminar parallel flows; similarity and approximate solutions; potential flow; laminar momentum boundary layers.

Requisites

Simple Requirements

Prerequisite: ME 3720.

CEE6200 - Statistical Inference for Engr

General

College/School
Engineering

Course Title
Statistical Inference for Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Decision making with hypothesis testing and confidence intervals. Multiple regression and stepwise regression. Design of one and multifactor experiments. 2k experiments with blocking and fractional factorials. Control charting of time series data.

Requisites

Simple Requirements

Prerequisite: Introductory calculus based statistics course or consent of instructor.

CEE6300 - Multiscale Analysis - Concrete

General

College/School
Engineering

Course Title
Multiscale Analysis - Concrete

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: CEE 3030. Manufacturing, hydration, and microstructural development of Portland cement. Fresh and hardened concrete properties. Special concrete applications, including fiber-reinforced, high performance, and lightweight concretes.

CEE6350 - Finite Element Analysis

General

College/School
Engineering

Course Title
Finite Element Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to analysis of stresses in a continuum by the finite element method. Computer applications.

Requisites

Simple Requirements

Prerequisite: CEE4130 Matrix & Finite Element Method/CEE5130 Matrix & Finite Element Method or CEE4190 Adv Mechanics of Materials/CEE5190 Adv Mechanics of Materials or ME4180 Finite Elem Meth-Mech Dsgn/ME5180 Finite Elem Meth/ME Dsgn or consent of instructor.

CEE6360 - Intro to Continuum Mechanics

General

College/School
Engineering

Course Title
Intro to Continuum Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Tensors, balance, laws, constitutive equations, thermodynamic restrictions, applications.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6370 - Vibration of Continuous Media

General

College/School
Engineering

Course Title
Vibration of Continuous Media

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Governing equations for strings, bars, and membranes; natural frequencies; normal modes; series solutions; wave propagation; transform methods; characteristics.

Requisites

Simple Requirements

Prerequisite: CEE 3110, MATH4510 Adv Math for Engineers, ME 3050.

CEE6380 - Earthquake Ground Motion Analysis

General

College/School
Engineering

Course Title
Earthquake Grnd Mtn Analysis

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6380

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4350 (5350) or CEE 4380 (5380). Ground motion databases; earthquake ground motion correction and filtering; ground motion parameters; elastic and inelastic response spectra for recorded ground motions; design ground motion in ASCE 7, ASCE 43, and AASHTO; ground motion selection and modification for Civil Engineering design.

Requisites

Simple Requirements

Untitled Requirement

Type
Prerequisite

Complete ANY of the following Courses:
- CEE4350 - Advanced Structural Design
  OR CEE5350 - Advanced Structural Design
  OR CEE4380 - Bridge Design
  OR CEE5380 - Bridge Design

CEE6400 - Traffic Simulation

General

College/School
Engineering

Course Title
Traffic Simulation

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6400

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Discrete event simulation, Monte Carlo simulation, random number generators, sampling from distributions, synthetic origin-destination matrices, general simulation modelling and advanced traffic simulation modelling.

Requisites

Simple Requirements

Pre- or Co-requisite: CEE5630 Traffic Engineering or consent of the instructor.

CEE6410 - Traffic Control Systems

General

College/School
Engineering

Course Title
Traffic Control Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6410

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Theory and practical applications of traffic regulatory measures and traffic control systems, including adaptive, responsive, preemption, and Intelligent Transportation Systems.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6415 - Applied Environmental Chemistry

General

College/School
Engineering

Course Title
Applied Env Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6415

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Lab Hours

Lab Hours Min:
0

Course Description
Theoretical concepts from inorganic, organic, physical, and biological chemistry as applied to the analysis of environmental engineering problems.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6440 - Hydrometerology

General

College/School
Engineering

Course Title
Hydrometerology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and observations of hydrological processes in land-surface and atmosphere. Exchanges of mass, heat and momentum between soil, vegetation, or water surface and overlying atmosphere. Precipitation processes, radiation and clouds, atmospheric boundary layer dynamics, coupled balance of moisture and energy, soil moisture and climate feedbacks, hydroclimatology, monsoonal flow and thunderstorms. Emphasis on recent research and modern methods for data analysis and modeling.

Requisites

Simple Requirements

Prerequisite: CEE4420 Engineering Hydrology(CEE5420 Engineering Hydrology), Engineering Hydrology, or consent of instructor.

CEE6470 - Transportation Demand Analysis

General

College/School
Engineering

Course Title
Transportation Demand Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and development of models of trip generation, trip distribution, mode choice, and traffic-assignment. Transportation supply. Travel survey. Intercity-passenger travel-demand. Demand for air transportation.

Requisites

Simple Requirements

Prerequisite: CEE4660 Transportation Planning, ISE 3200, or consent of instructor.

CEE6520 - Open-Channel Hydraulics

General

College/School
Engineering

Course Title
Open-Channel Hydraulics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced topics in open-channel hydraulics, including design of hydraulic structures, gradually varied flow, unsteady flow, and flood routing techniques.

Requisites

Simple Requirements

Prerequisite: CEE3420 Hydraulics or consent of instructor.

CEE6530 - Finite Element Analysis

General

College/School
Engineering

Course Title
Finite Element Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
not available.

Requisites

CEE6610 - Applied Env Chemistry

General

College/School
Engineering

Course Title
Applied Env Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6610

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Theoretical concepts from inorganic, organic, physical, and biological chemistry as applied to the analysis of environmental engineering problems.

CEE6710 - Env Engr Univ Ops & Processes

General

College/School
Engineering

Course Title
Env Engr Univ Ops & Processes

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced study of the physical, chemical and biological unit operations processes for water and wastewater treatment.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6720 - Env Engr Unit Ops & Processes

General

College/School
Engineering

Course Title
Env Engr Unit Ops & Processes

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced study of the physical, chemical and biological unit operations processes for water and wastewater treatment.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6740 - Industrial Waste treatment

General

College/School
Engineering

Course Title
Industrial Waste treatment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6740

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
3

Course Description
Characteristics of industrial wastes and of processes producing such wastes. Methods of treating industrial wastes.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6750 - Environmental Modeling

General

College/School
Engineering

Course Title
Environmental Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical modeling of chemical and biological processees occurring in streams, lakes, and estuaries, emphasizing oxygen demand and nutrient processes.

Requisites

Simple Requirements

Prerequisite: CEE 4430 or consent of instructor.

CEE6760 - Environmental Microbiology

General

College/School
Engineering

Course Title
Environmental Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6760

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Mathematical modeling of chemical and biological processees occurring in streams, lakes, and estuaries, emphasizing oxygen demand and nutrient processes.

Requisites

Simple Requirements

Prerequisite: CEE 4430 or consent of instructor.

CEE6770 - Environmental Engr Lab

General

College/School
Engineering

Course Title
Environmental Engr Lab

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6770

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
3

Course Description
Environmental engineering laboratory experience related to unit operations and processes and environmental microbiology.

Requisites

Simple Requirements

Corequisite: CEE6710 Env Engr Univ Ops & Processes-CEE6720 Env Engr Unit Ops & Processes.

Requirements
COREQUISITES
CEE6710

CEE6780 - Environmental Engr Lab

General

College/School
Engineering

Course Title
Environmental Engr Lab

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6780

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
3

Course Description
Environmental engineering laboratory experience related to unit operations and processes and environmental microbiology.

Requisites

Simple Requirements

Corequisite: CEE6710 Env Engr Univ Ops & Processes- CEE6720 Env Engr Unit Ops & Processes.

CEE6800 - Advanced Soil Mechanics

General

College/School
Engineering

Course Title
Advanced Soil Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4800. Soil mechanics principles including geostatic stress and consolidation process; drained and undrained behavior; pore pressure parameters; shear strength testing; peak, fully softened, and residual shear strength of soil.

Requisites

CEE6820 - Seepage and Slope Stability

General

College/School
Engineering

Course Title
Seepage and Slope Stability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Soil permeability and shear strength fundamentals; graphical, analytical, and numerical methods of seepage evaluation; seapage control and design; limit equilibrium and finite element stability methods.

Requisites

Simple Requirements

Prerequisite: CEE4800 Geotechnical Engineering.

CEE6830 - Probabilistic Analysis and Reliability in Civil and Environmental Engineering

General

College/School
Engineering

Course Title
Probability and Reliability

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
CEE

Course Number
6830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability and statistics fundamentals; random variables and functions of random variables; probability distributions; regression analysis, analytical and computational methods for reliability analysis; applications of probabilistic methods to civil engineering

Requisites

Simple Requirements

Prerequisites for CEE 6830

Type
Prerequisite

Complete ALL of the following Courses:
- CEE3720 - Principles of Engr Statistics
  OR ENGR3720 - Principles of Engr Statistics
  OR MATH3470 - Intro/Prob & Stats

CEE6840 - Envrnmntl Apps-Remote Sensing

General

College/School
Engineering

Course Title
Envrnmntl Apps-Remote Sensing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and techniques of remote sensing and their application to environmental analysis. Microwave, infrared, passive and active techniques on orbiting and geostationary platforms. Multi-sensor analysis, current and planned satellite missions, radar altimetry, estimation of precipitation, soil moisture, discharge, land use and land cover. Scale and uncertainty issues.

Requisites

Simple Requirements

Prerequisite: CEE4420 Engineering Hydrology(CEE5420 Engineering Hydrology) (Engineering Hydrology) or consent of instructor.

CEE6850 - Multiscale Analysis of Concrete

General

College/School
Engineering

Course Title
Multiscale Analysis - Concrete

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Manufacturing, hydration, and microstructural development of Portland cement. Fresh and hardened concrete properties. Special concrete applications, including fiber-reinforced, high performance, and lightweight concretes.

Requisites

Simple Requirements

Prerequisite: CEE 3030 or Equivalent – Basic knowledge of cement and concrete materials

CEE6860 - Specialty Concrete Applications

General

College/School
Engineering

Course Title
Specialty Concrete Appl

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
CEE

Course Number
6860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Non-traditional portland cement-based and alternative cementitious materials, mix designs, and methods.

Requisites

Simple Requirements

Prerequisite for CEE 6860

Type
Prerequisite

Complete ALL of the following Courses:
- CEE3030 - Civil Engineering Materials

CEE6910 - Graduate Seminars

General

College/School
Engineering

Course Title
Graduate Seminars

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Seminar lectures and research presentations by invited speakers and graduate students on all fields of Civil Engineering

Requisites

CEE6930 - Theory of Elasticity

General

College/School
Engineering

Course Title
Theory of Elasticity

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Investigation of a topic which is compatible with students' prerequisites, interests, and abilities.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE6970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
4

Course Description
Investigation of a topic which is compatible with students' prerequisites, interests, and abilities. May be repeated for credit if course topic is different.

Requisites

Simple Requirements

Prerequisite: Consent of Instructor.

CEE6980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
6980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Independent study of topics. May be repeated for credit if course topic is different.

Requisites

Simple Requirements

Consent of instructor

CEE6990 - Research & Thesis

General

College/School
Engineering

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course includes independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis. May be repeated for credit if course topic is different.

Requisites

CEE7200 - Surface Phenom/Env Processes

General

College/School
Engineering

Course Title
Surface Phenom/Env Processes

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of the environmental significance of the physical and chemical processes which occur at the interface between two phases.

Requisites

Simple Requirements

Prerequisite: CEE6710 Env Engr Univ Ops & Processes or consent of instructor.

CEE7210 - Water Qual Aspects of Impound

General

College/School
Engineering

Course Title
Water Qual Aspects of Impound

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Water quality changes and their causative mechanisms that occur in water stored and released from impoundments. Study of reservoir water quality models.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE7300 - Natural Systems Engineering

General

College/School
Engineering

Course Title
Natural Systems Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of treatment of wastes through engineered natural systems. Wetlands, lagoons, and land application.

Requisites

Simple Requirements

Prerequisite: CEE6720 Env Engr Unit Ops & Processes or consent of instructor.

CEE7310 - Haz Waste Remed/Grdwtr & Soil

General

College/School
Engineering

Course Title
Haz Waste Remed/Grdwtr & Soil

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of processes for the remediation of hazardous waste contamination in groundwater and in soil. Water-soil interactions and transport of pollutants.

Requisites

Simple Requirements

Prerequisite: CEE6720 Env Engr Unit Ops & Processes or consent of instructor.

CEE7320 - Degradation of Waste Organics

General

College/School
Engineering

Course Title
Degradation of Waste Organics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7320

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
A study of physical, chemical, and biologically mediated degradation of waste organics. Emphasis is placed upon the catabolism of naturally-occurring organic substrates in natural and engineered environments.

Requisites

Simple Requirements

Prerequisite: CEE6760 Environmental Microbiology, CEE6620 Applied Env Chemistry, or consent of instructor.

CEE7360 - Adv/Prestressed Concrete Dsgn

General

College/School
Engineering

Course Title
Adv/Prestressed Concrete Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7360

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Advanced topics on analytical methods and design approaches of pre-tensioned and post-tensioned concrete members.

Requisites

Simple Requirements

Prerequisite: CEE4360 Adv Top/Struc Concrete Design(5360), CEE6930 Theory of Elasticity, and consent of instructor.

CEE7410 - Adv Travel Demand Modeling

General

College/School
Engineering

Course Title
Adv Travel Demand Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory of individual choice behavior. Binomial choice models. Multinomial choice models. Aggregate forecasting techniques. Aggregation and sampling of alternatives. Models of multidimensional choice. Transferability and updating of choice models.

Requisites

Simple Requirements

Prerequisite: CEE6470 Transportation Demand Analysis.

CEE7420 - Public Transportation

General

College/School
Engineering

Course Title
Public Transportation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Public transportation modes and characteristics, planning of public transportation networks, mathematical modeling of the demand for public transportation, and measurement of system performance.

Requisites

Simple Requirements

Prerequisite: CEE6470 Transportation Demand Analysis or consent of instructor.

CEE7450 - Adv Topics/Concrete Durability

General

College/School
Engineering

Course Title
Adv Topics/Concrete Durability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7450

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: CEE 6300 or consent of instructor. Chemical and physical durability of Portland cement-based materials. Alkali-silica reaction, internal and external sulfate attack, permeability, shrinkage, freeze-thaw durability, and corrosion. Multi-scale (nano-, micro-, and macro-scale) investigations, including economical considerations, mitigation strategies, and advanced nano-/micro-structural characterization techniques.

CEE7510 - Theory of Plates & Shells

General

College/School
Engineering

Course Title
Theory of Plates & Shells

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CEE

Course Number
7510

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Bending and buckling of thin plates and shells. Vibration analysis of plates and shells.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity or consent of instructor.

CEE7620 - Adv Finite Element Analysis

General

College/School
Engineering

Course Title
Adv Finite Element Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Finite element analysis of coupled differential equations. Higher order and isoparametric element formulations. Applications to problems in stress analysis, vibrations, heat transfer and fluid mechanics. Introduction to commercial programs.

Requisites

Simple Requirements

Prerequisite: CEE6350 Finite Element Analysis/ME6350 Finite Element Analysis or consent of instructor.

CEE7640 - Theory/Inelastic Mtrl Behvr

General

College/School
Engineering

Course Title
Theory/Inelastic Mtrl Behvr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Constitutive equations for classical viscoelasticity. Exact solutions for simple constitutive laws. Incremental stress-strain relations for plasticity; yield surface and deformation theories. Application to engineering problems.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity or ME6360 Intro to Continuum Mech.

CEE7650 - Cont Theories of Materials

General

College/School
Engineering

Course Title
Cont Theories of Materials

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Continuum thermodynamics; balance laws and constitutive equations; applications for simple fluids, solids, thermoelastic solids, thermodiffusion and electrodynamics.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity or ME6360 Intro to Continuum Mech or consent of instructor.

CEE7710 - Fracture Mechanics

General

College/School
Engineering

Course Title
Fracture Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Griffith-Irwin Theory; stress intensity factors; crack tip stresses; plasticity; fatigue crack propagation; fracture toughness testing; experimental aspects; design applications; special topics.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity.

CEE7720 - Fiber-Reinforced Comp Mtrl

General

College/School
Engineering

Course Title
Fiber-Reinforced Comp Mtrl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Properties of orthotropic lamina; micromechanics; classical lamination theory; lamina strength theories; laminate strength theories; failure theories, design criteria, 3-D lamination theory; analysis of laminated plate bending, vibration and buckling; and computational implementation.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity or ME6930 Theory of Elasticity .

CEE7810 - Structural Dynamics

General

College/School
Engineering

Course Title
Structural Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Vibration of single and multi degree-of-freedom systems; dynamic analysis of beams, frames and trusses; systems with distributed properties; discretization of continuous system and practical computer solutions.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CEE7820 - Theory of Elastic Stability

General

College/School
Engineering

Course Title
Theory of Elastic Stability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Beams-columns; elastic buckling of bars and frames; torsional buckling of thin-walled structures; lateral buckling of beams; bending and buckling of thin plates and shells.

Requisites

Simple Requirements

Prerequisite: CEE6930 Theory of Elasticity or consent of instructor.

CEE7850 - Advanced Topics in Concrete Durability

General

College/School
Engineering

Course Title
Adv Topics/Concrete Durability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7850

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Chemical and physical durability of Portland cement-based materials. Alkali-silica reaction, internal and external sulfate attack, permeability, shrinkage, freeze-thaw durability, and corrosion. Multi-scale (nano-, micro-, and macro-scale) investigations, including economical considerations, mitigation strategies, and advanced nano-/micro-structural characterization techniques.

Requisites

Simple Requirements

Prerequisite: CEE6300 Multiscale Analysis - Concrete or consent of instructor.

CEE7970 - Advanced Selected Topics

General

College/School
Engineering

Course Title
Advanced Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7970

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
4

Course Description
Prerequisite: Consent of Instructor. Investigation of a topic which is compatible with students prerequisites, interests, and abilities. May be repeated for credit if course topic is different.

Requisites

Simple Requirements

Prerequisites: Consent of Instructor.

CEE7980 - Advanced Directed Study

General

College/School
Engineering

Course Title
Advanced Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Independent study of topics. May be repeated for credit if course topic is different.

Requisites

Simple Requirements

Consent of instructor

CEE7990 - Research & Dissertation

General

College/School
Engineering

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CEE

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course entails advanced, original research conducted under faculty guidance, culminating in the writing and defense of a doctoral dissertation.

Requisites

CHE5050 - Transfer Science III: Diffusion and Mass Transfer

General

College/School
Engineering

Course Title
Trans Sci III: Diff/Mass Trans

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5050

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Mathematical description of diffusion and diffusive-convective mass transfer. Mass transfer with reaction. Dimensional analysis. Mass transfer in one and two-dimensions in Cartesian, cylindrical, and spherical coordinates. Integrated labs demonstrating the concept of diffusion, computational experiments, and demonstrating the effect of geometry, flow, etc., on mass transfer.

Requisites

Simple Requirements

Prerequisites: CHE 3010, CHE 3050, CHE 3051, CHE 3510, CHE 3511, CHE 3551.

Co-requisites: CHE 4051 or CHE5051.

CHE5051 - Transfer Science III: Diffusion and Mass Transfer Lab

General

College/School
Engineering

Course Title
TS III: Diff/Mass Transfer Lab

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5051

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
2

Course Description
Mathematical description of diffusion and diffusive-convective mass transfer. Mass transfer with reaction. Dimensional analysis. Mass transfer in one and two-dimensions in Cartesian, cylindrical, and spherical coordinates. Integrated labs demonstrating the concept of diffusion, computational experiments, and demonstrating the effect of geometry, flow, etc., on mass transfer.

Requisites

Simple Requirements

Corequisite: CHE4050 TS III: Mass Transfer or CHE5050 Trans Sci III: Diff/ Mass Trans.

CHE5060 - Chemical Reaction Engineering

General

College/School
Engineering

Course Title
Chemical Reaction Engineering

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Chemical reaction kinetics and chemical reactor design. There is an emphasis on homogeneous reactions and ideal and non-ideal reactors. Introduction to laboratory experiments to illustrate typical situations found in chemical reacting systems: kinetics parameter determination, resident time visualization, and introduction to different types of reactors, (i.e. batch , tubular and gradient-less).

Requisites

Simple Requirements

Prerequisites: CHE3010 Thermodynamics-Chem Processes, CHE3050 TS I: Cond., Rad., Diff, CHE3051 TS 1: Cond., Rad., Diff. Lab, CHE3510 Sep & Solutions Thermodynamics, CHE3511 Sep & Solution Thermo 2 Lab, CHE3550 TS II: Fluid Mechanics, CHE3551 TS II: Fluid Mechanics Lab.

Corequisites: CHE4061 Chemical Reaction Engr Lab or CHE5061 Chemical Reaction Engr Lab.

Requirements
COREQUISITES
CHE5061

CHE5061 - Chemical Reaction Engineering Lab

General

College/School
Engineering

Course Title
Chemical Reaction Engr Lab

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5061

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
2

Course Description
Chemical reaction kinetics and chemical reactor design. There is an emphasis on homogeneous reactions and ideal and non-ideal reactors. Introduction to laboratory experiments to illustrate typical situations found in chemical reacting systems: kinetics parameter determination, resident time visualization, and introduction to different types of reactors, (i.e., batch, tubular and gradient-less).

Requisites

Simple Requirements

Corequisite: CHE5060 Chemical Reaction Engineering.

Requirements
COREQUISITES
CHE5060

CHE5110 - Intro-Comp Heat, Mass/Mo Trans

General

College/School
Engineering

Course Title
Intro-Comp Heat, Mass/Mo Trans

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
General equations describing heat, mass, and momentum transport. Similarities and differences in transport properties are studied. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE3110 Transfer Science I.

CHE5130 - Transfer Science III

General

College/School
Engineering

Course Title
Transfer Science III

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles, design, and operation of equipment for separation and purification of materials. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE2010 Intro to Chem Engr Analysis.

CHE5131 - Trans Sci III: D&D Mass Trans

General

College/School
Engineering

Course Title
Trans Sci III: D&D Mass Trans

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5131

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: CHE 3010, CHE 3021, CHE 3111 and CHE 3121.

CHE5210 - Chemical Reaction Engr

General

College/School
Engineering

Course Title
Chemical Reaction Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5210

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
1

Course Description
Chemical reaction kinetics and chemical reactor design. Emphasis on homogeneous reactions. Ideal and nonideal reactors. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE3020 Chem Engr Thermodynamics II or consent of instructor. CHE 3010, CHE 3021, CHE 3111, and CHE 3121.

CHE5300 - Intro to Air Pollution

General

College/School
Engineering

Course Title
Intro to Air Pollution

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5300

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Problems of air pollution and their solutions. Analysis and design of devices for the control of air pollutants from chemical processes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE3110 Transfer Science I. CHE 4131 (CHE5131 Trans Sci III: D&D Mass Trans).

CHE5330 - Polymer Engineering

General

College/School
Engineering

Course Title
Polymer Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Polymerization kinetics for key commercial polymers, structure/property relationships and characterization of key polymers, processing fundamentals, fundamentals of formulation of polymer composites and blends (nanocomposites, biopolymers.)

Requisites

Simple Requirements

Prerequisite: CHEM 3020. CHEM 3010.

CHE5410 - Process Design I

General

College/School
Engineering

Course Title
Process Design I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Synthesis, design, economics, and optimization of chemical process systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Graduate standing in CHE and/or consent of instructor.

CHE5420 - Process Design II

General

College/School
Engineering

Course Title
Process Design II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: CHE 5410 and graduate standing in CHE and/or consent of instructor. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CHE5470 - Intdis Stud/Cermc Mtrl Process

General

College/School
Engineering

Course Title
Intdis Stud/Cermc Mtrl Process

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5470

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Materials processing; surface phenomena; particle size reduction; forming; consolidation by sintering and reaction processes; application of fracture mechanics; failure models; research on selected fabrication and synthesis routes for metals, ceramics and their composites; mechanical, chemical and morphological characterization theory and practice; materials design project using several onsite laboratories. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: graduate standing in engineering or science. Senior Standing in Engineering, Mathematics, Chemistry (Calculus-based), or Physics.

CHE5510 - Applied Math in Chem Engr

General

College/School
Engineering

Course Title
Applied Math in Chem Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Applied numerical methods and the solution of differential equations, both analytically and numerically, in chemical engineering. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE3020 Chem Engr Thermodynamics II, CHE3120 Transfer Science II, and Math2910. CHE 3021, CHE 3121, MATH 2120 and Senior Standing.

CHE5660 - Biochemical Engineering

General

College/School
Engineering

Course Title
Biochemical Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Applications of chemical engineering principles to the study of biochemical systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHE 4210 (CHE5210 Chemical Reaction Engr) or consent of instructor. Senior Standing.

CHE5661 - Transport in Biochem/Biol Proc

General

College/School
Engineering

Course Title
Transport in Biochem/Biol Proc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
5661

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: CHE 3111, CHE 3121, CHE 4131 (CHE5131 Trans Sci III: D&D Mass Trans), CHE 4210 (CHE5210 Chemical Reaction Engr).

CHE5730 - Chem Engr Operations

General

College/School
Engineering

Course Title
Chem Engr Operations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
5730

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Decision-making techniques as applied to management of chemical processing plants. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: senior or graduate standing.

CHE6010 - Adv Chem Engr Thermodynamics

General

College/School
Engineering

Course Title
Adv Chem Engr Thermodynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced thermodynamic concepts, especially phase and chemical equilibria, estimation and correlation of thermodynamic properties, and intermolecular forces

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6040 - Intermediate Fluid Mechanics

General

College/School
Engineering

Course Title
Intermediate Fluid Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Formulation of mass and momentum transfer equations; exact solutions of laminar parallel flows; similarity and approximate solutions; potential flow; laminar momentum boundary layers.

Requisites

Simple Requirements

Prerequisite: ME 3720.

CHE6060 - Electrochemical Power Sources

General

College/School
Engineering

Course Title
Electrochemical Power Sources

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6060

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
The lecture will start from the electrochemical thermodynamics and kinetics, with emphasis on electrochemical techniques, fundamental principles and technologies of batteries, fuel cells, and supercapacitors. A unique feature of the course is the fact that 20 percent of the time is spent in the laboratory using state of the art electrochemical instrumentation under the guidance of course instructor.

Requisites

Simple Requirements

Prerequisite: CHE 3010, ME 3210 or equivalent thermodynamics-related course.

CHE6100 - Intro to Food, Energy, Water

General

College/School
Engineering

Course Title
Intro to Food, Energy, Water

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6100

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
1

Billing Hours

Billing Hours Min :
1

Lecture Hours

Lecture Hours Min:
1

Course Description
Students will engage in problem identification at the FEW (Food-Energy-Water) nexus with guidelines to consider the sociology components, political and legal components, and environmental components at these intersections using the Renaissance Foundry Model. Concepts of sustainability and ethical design will be highlighted leveraging the Engineering for One Planet framework.

Requisites

Simple Requirements

Prerequisites: None

CHE6110 - Comp Heat, Mass/Momentum Trans

General

College/School
Engineering

Course Title
Comp Heat, Mass/Momentum Trans

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced study of fluid flow, heat transfer, and mass transfer.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6120 - Comp Heat, Mass/Momentum Trans

General

College/School
Engineering

Course Title
Comp Heat, Mass/Momentum Trans

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced study of fluid flow, heat transfer, and mass transfer.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6130 - FEW Nexus Challenge

General

College/School
Engineering

Course Title
FEW Nexus Challenge

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Building on the Intro to FEW and Cultural Training courses, students will engage in problem identification at the FEW Nexus with guidelines to consider the sociology components, political and legal components, and environmental components at these intersections using the Renaissance Foundry Model. Concepts of sustainability and ethical design will be highlighted leveraging the Engineering for One Planet framework. Further, students will engage in both knowledge acquisition and knowledge transfer activities that will help build their collaborative, critical thinking, and innovation-driven learning skills to apply to the food-energy-water challenges identified in the course.

Requisites

Simple Requirements

Prerequisites: None

CHE6140 - Physics of Transport

General

College/School
Engineering

Course Title
Physics of Transport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
6140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course Description: Course is focused on learning fundamentals of conservation principles in chemical engineering applications. It reviews fundamentals of vector algebra and vector mechanics. The course introduces students to principles of conservation of momentum, total and species mass, and energy. Of particular interest, is the integral equation-based formulation of these principles and their scaling to the microscopic scale. Systems for both traditional chemical engineering applications and more recent ones including biotechnology and environmental areas are selected for illustrations.

Requisites

Simple Requirements

Prerequisites: None

CHE6150 - Interdisciplinary Integration and Techniques

General

College/School
Engineering

Course Title
Interdisc Integration/Techniq.

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
6150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The purpose of this course is to provide structure and guidance working across disciplines by emphasizing interdisciplinary collaboration in tandem with the concepts introduced in the introduction to Food-Energy-Water, Cultural Training, and FEW Nexus Challenge courses by having students leverage the Foundry, critical thinking, and cultural training skills as applied to directed research prototyping experiences in practical applications in industry.

Requisites

Simple Requirements

Prerequisites: CHE6100 Intro to Food, Energy, Water, SOC6100 Interdisc Cultural Training OR HIST6100 Interdisc Cultural Training, and CHE6130 FEW Nexus Challenge, or consent of instructor.

CHE6210 - Advanced Kinetics

General

College/School
Engineering

Course Title
Advanced Kinetics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of complex chemical reaction systems, catalytic and non-catalytic reactions, homogeneous and heterogeneous systems, and heat effects.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6410 - Adv Process Engr Design

General

College/School
Engineering

Course Title
Adv Process Engr Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Applications of thermodynamics, kinetics, transfer operations, and economics to optimum design of processes, equipment, and plants.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6530 - Process Optimization

General

College/School
Engineering

Course Title
Process Optimization

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of the principles of optimization and related techniques to the problems of chemical processes.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHE6540 - Process Dynamics

General

College/School
Engineering

Course Title
Process Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Continuation of Chemical Engineering 4540. Frequency response methods, nonlinear methods, process applications, and computer simulation.

Requisites

Simple Requirements

Prerequisite: CHE 4540 or equivalent.

CHE6552 - Adv Special Topics ENEV

General

College/School
Engineering

Course Title
Adv Special Topics ENEV

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6552

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: MATH 2120. Minimum Grade of C. Special current topics in Chemical Engineering with engineering content in nuclear power, solar power, alternative energy storage or production, carbon sequestration, economics of energy infrastructure. This course will cover the regulation, economics, process safety and technical developments associated with power production with consideration of how greener forms of energy production raise issues associated with environmental engineering stewardship

Requisites

CHE6810 - Special Topics/Chem Engr

General

College/School
Engineering

Course Title
Special Topics/Chem Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
6810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. Topics such as polymeric materials, biochemical engineering, pollution abatement, air and liquid filtration, energy conversion, processing in extreme conditions.

Requisites

CHE6910 - Chem Engr Grad Seminar

General

College/School
Engineering

Course Title
Chem Engr Grad Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Current literature in Chemical Engineering and presentation of current or completed graduate research.

Requisites

Simple Requirements

Prerequisite: Graduate standing in Chemical Engineering.

CHE6920 - Chem Engr Grad Seminar

General

College/School
Engineering

Course Title
Chem Engr Grad Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6920

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Current literature in Chemical Engineering and presentation of current or completed graduate research.

Requisites

Simple Requirements

Prerequisite: Graduate standing in Chemical Engineering.

CHE6950 - Direct Studies - Immersion Experienc

General

College/School
Engineering

Course Title
Dir. Studies/Immer. Experience

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
CHE

Course Number
6950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The purpose of this course is to build on concepts introduced in the Introduction to Food-Energy-Water, Cultural Training, and FEW Nexus Challenge courses by having students leverage the Foundry, critical thinking, and cultural training skills as applied to research immersion experiences.

Requisites

Simple Requirements

Prerequisites: CHE6100 Intro to Food, Energy, Water, SOC6100 Interdisc Cultural Training OR HIST6100 Interdisc Cultural Training, and CHE6130 FEW Nexus Challenge , or consent of instructor.

CHE6960 - FEW Nexus Capstone

General

College/School
Engineering

Course Title
FEW Nexus Capstone

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
CHE

Course Number
6960

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Building on scaffolding from prior courses, the full Renaissance Foundry Model will be leveraged to have students identify challenges related to stakeholder communities and areas of emphasis in their programs of study.

Requisites

Simple Requirements

Prerequisites: CHE6100 Intro to Food, Energy, Water, SOC6100 Interdisc Cultural Training or HIST6100 Interdisc Cultural Training, and CHE6130 FEW Nexus Challenge, or consent of instructor.

CHE6970 - Non-Thesis Design Project

General

College/School
Engineering

Course Title
Non-Thesis Design Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
0

Lab Hours

Lab Hours Min:
0

Course Description
Scientific investigation into a topic in chemical engineering

Requisites

Simple Requirements

Prerequisites: Admission to CHE MS degree program (non-thesis option) or admission to Direct Admit PhD program.

CHE6990 - Research & Thesis

General

College/School
Engineering

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course involves independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis.

Requisites

CHE7030 - Molecular Thermodynamics

General

College/School
Engineering

Course Title
Molecular Thermodynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7030

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prediction and correlation of thermodynamic properties used in vapor-liquid and liquid-liquid phase equilibrium calculations. Monte-Carlo and Molecular Dynamics Simulation techniques.

Requisites

Simple Requirements

Prerequisites: None

CHE7040 - Thermodynamics

General

College/School
Engineering

Course Title
Thermodynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Methods for presenting thermodynamic data of hydrocarbons; P-V-T correlations, K and alpha values, fugacity and activity coefficients.

Requisites

Simple Requirements

Prerequisites: None

CHE7140 - Separation Processes

General

College/School
Engineering

Course Title
Separation Processes

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Separation processes including multicomponent distillation, azeotropic and extractive distillation, gas absorption, and liquid-liquid extraction.

Requisites

Simple Requirements

Prerequisites: None

CHE7220 - Chem Reactors-Heterog Systems

General

College/School
Engineering

Course Title
Chem Reactors-Heterog Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Design of reactors for heterogeneous systems.

Requisites

Simple Requirements

Prerequisites: None

CHE7230 - Adv Nanocomposite Engr Tech

General

College/School
Engineering

Course Title
Adv Nanocomposite Engr Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
7230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Nanoscience requires application of both continuum mechanics and quantum mechanics to aid materials design. The course will reflect interdisciplinary studies in composite engineering and chemistry to illuminate advanced principles of mechanics, characterization and thermodynamics in the emerging field of nanoscience/surface science. Modeling methodologies, scaling and modern processing techniques are taught.

Requisites

Simple Requirements

Prerequisites: ChE 6010.

CHE7240 - Adv/Fuel Cell Electrocatalysis

General

College/School
Engineering

Course Title
Adv/Fuel Cell Electrocatalysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
7240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course probes the state-of-the-art advances in electrocatalyst development and catalyst layer engineering for a variety of fuel feeds and fuel cell types. Nano-catalyst structure is a central issue. Characterization methodologies, redox reaction mechanisms and durability limitations will be covered.

Requisites

Simple Requirements

Prerequisite: CHE6010 Adv Chem Engr Thermodynamics.

CHE7410 - Adv Top/Comp Molecular Dsgn

General

College/School
Engineering

Course Title
Adv Top/Comp Molecular Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Strategies, techniques and applications associated with recent advances in the inverse design process of computational molecular design.

Requisites

Simple Requirements

Prerequisite: CHE6010 Adv Chem Engr Thermodynamics and consent of instructor.

CHE7420 - Adv Top/ Multi-Scale Sim/Matr

General

College/School
Engineering

Course Title
Adv Top/ Multi-Scale Sim/Matr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will develop the concept of multi-scale analysis and mathematical approaches and illustrate them for a number of applications.

Requisites

Simple Requirements

Prerequisite: CHE5510 Applied Math in Chem Engr, CHE6110 Comp Heat, Mass/Momentum Trans or equivalents with consent of instructor.

CHE7430 - Comp Modeling/Electochem Sys

General

College/School
Engineering

Course Title
Comp Modeling/Electochem Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Modeling methodologies, recent techniques and tools required to simulat electrochemical systems and in particular batteries.

Requisites

Simple Requirements

Prerequisite: CHE6110 Comp Heat, Mass/Momentum Trans or similar with consent of the instructor.

CHE7440 - Electrokinetic-Bsd Separations

General

College/School
Engineering

Course Title
Electrokinetic-Bsd Separations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on the learning of key fundamental principles related to Electrokinetics-Hydrodynamics (EKHD) with selected applications to bio-separation including electrophoresis, electro-field flow fractionation, and electrokinetic-based separations.

Requisites

Simple Requirements

Prerequisite: CHE6110 Comp Heat, Mass/Momentum Trans.

CHE7970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Advanced special topics in chemical engineering taught on an as-needed basis.

Requisites

CHE7980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHE

Course Number
7980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
This course provides graduate students the opportunity to pursue a directed independent study or research on a specialized topic under the guidance of a faculty member, culminating in a written report or project.

Requisites

Simple Requirements

Prerequisites: None

CHE7990 - Research & Dissertation

General

College/School
Engineering

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHE

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course entails advanced, original research conducted under faculty guidance, culminating in the writing and defense of a doctoral dissertation.

Requisites

CHEM5000 - Grad Teaching Asst. Training

General

College/School
Arts and Sciences

Course Title
Grad Teaching Asst. Training

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5000

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description

Laboratory safety procedures, safe management of chemical waste, and teaching pedagogy.

Requisites

Simple Requirements

Prerequisite: Full Standing in Chemistry M.S. Program and instructor consent.

CHEM5110 - Inorganic Chemistry

General

College/School
Arts and Sciences

Course Title
Inorganic Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Correlation of physical and chemical properties of inorganic compounds and atomic structure. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHEM2010 Intro to Inorganic Chemistry and CHEM 3500 or 3510.

CHEM5150 - Inorganic Chemistry

General

College/School
Arts and Sciences

Course Title
Inorganic Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5150

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
3

Course Description
Synthesis, isolation, and characterization of inorganic compounds, using conventional as well as microscale and inert gas techniques. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Corequisite: CHEM4110 Inorganic Chemistry (CHEM5110 Inorganic Chemistry)

Requirements
COREQUISITES
CHEM5110

CHEM5210 - Chemistry of Polymers

General

College/School
Arts and Sciences

Course Title
Chemistry of Polymers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Preparation, structure, physical andchemical properties of organic polymers. Experimental determination of average molar massand its correlation to macrioscopic properties. Thermal and viscoelastic behavior. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- CHEM3020 - Organic Chemistry II

CHEM5310 - Nuclear Chem & Radiochemistry

General

College/School
Arts and Sciences

Course Title
Nuclear Chem & Radiochemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5310

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Introduction to theory of nuclear stability and decay processes. The laboratory emphasizes the detection, safe handling, and use of radioisotopes in chemical investigations.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Earn a minimum Letter grade of C in the following:
- CHEM3410 - Quantitative Analysis

CHEM5320 - Spectrometic ID/Organ Comp

General

College/School
Arts and Sciences

Course Title
Spectrometic ID/Organ Comp

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5320

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
The isolation and identification of organic compounds by both chemical and physical means with emphasis on spectroscopic methods.

Requisites

Simple Requirements

Prerequisites: CHEM 3020 and CHEM 3500 or 3510.

CHEM5410 - Forensic Chemistry

General

College/School
Arts and Sciences

Course Title
Forensic Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5410

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
This course will examine the application of chemical concepts and methods to the analysis of crime scene evidence.

Requisites

Simple Requirements

Prerequisites

Type
Prerequisite

Complete at least 1 of the following courses:
- CHEM3020 - Organic Chemistry II
- CHEM3410 - Quantitative Analysis

Or consent of instructor

CHEM5520 - Instrumental Analysis I

General

College/School
Arts and Sciences

Course Title
Instrumental Analysis I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5520

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Theory and practice of atomic spectroscopy, chromatography, and electroanalysis; discussion of selected instrumental techniques for analysis of surfaces, molecules, and particles. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHEM 3410 and CHEM 3500 or 3510 (may be taken concurrently)

CHEM5610 - General Biochemistry I

General

College/School
Arts and Sciences

Course Title
General Biochemistry I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Chemistry of amino acids, proteins, lipids, carbohydrates, membranes and nucleic acids. Includes study of pH, enzyme kinetics, three-dimensional structure and biochemical separation methods and analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHEM 3010 with a grade of B or better or CHEM 3020

CHEM5620 - General Biochemistry II

General

College/School
Arts and Sciences

Course Title
General Biochemistry II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focus on two areas of biochemical studies: metabolisms of proteins, lipids, carbohydrates and nucleic acids, and information transfer in biological systems including genetic information and extracellular information. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite

Type
Completion Requirement

Complete ANY of the following Courses:
- CHEM4300 - General Biochemistry
- CHEM4610 - General Biochemistry I
- CHEM5610 - General Biochemistry I

CHEM5650 - General Biochemistry Lab

General

College/School
Arts and Sciences

Course Title
General Biochemistry Lab

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5650

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
2

Lab Hours

Lab Hours Min:
6

Course Description
Laboratory techniques associated with contemporary general biochemistry to include buffer preparation, pKa determination, amino acid analysis, protein expression, separation and purification techniques, protein determination, enzymology, equilibrium and binding constant determinations, and carbohydrate analysis. The CHEM 5650 student will engage in additional procedures in some of the experiments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHEM 4610 (5610) or CHEM 4300.

CHEM5710 - Environmental Chemistry

General

College/School
Arts and Sciences

Course Title
Environmental Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic concepts of environmental chemistry. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: CHEM 3005 or 3010, and CHEM 3410 or 3500 or 3510 (courses from the latter group may be taken concurrently).

CHEM5720 - Adv Environmental Chemistry

General

College/School
Arts and Sciences

Course Title
Adv Environmental Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
5720

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Advanced topics within environmental chemistry, including emphasis on organic, inorganic and analytical environmental chemistry. Case studies and contemporary literature in the field will be discussed. CHEM 5720 students will be required to carry out a more extensive field project and present a paper on an advanced topic in environmental chemistry. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CHEM4710 Environmental Chemistry(CHEM5710 Environmental Chemistry).

CHEM5970 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
5970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Timely topics in chemistry. Course may be taken for credit more than once. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CHEM6110 - Adv Inorganic Chemistry

General

College/School
Arts and Sciences

Course Title
Adv Inorganic Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The correlation of the physical and chemical properties of inorganic compounds with their structure.

Requisites

Simple Requirements

Prerequisite: CHEM4110 Inorganic Chemistry

CHEM6210 - Adv Organic Chemistry

General

College/School
Arts and Sciences

Course Title
Adv Organic Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of physical principles to the understanding of the structure and dynamics of organic compounds.

Requisites

Simple Requirements

Prerequisite: CHEM 3120.

CHEM6320 - Adv Physical Chemistry

General

College/School
Arts and Sciences

Course Title
Adv Physical Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced topics in physical chemistry to include aspects of statistical thermodynamics, quantum mechanics, spectroscopy, and kinetics.

Requisites

Simple Requirements

Prerequisite: CHEM 3520.

CHEM6350 - Advanced Molecular Modeling

General

College/School
Arts and Sciences

Course Title
Advanced Molecular Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Molecular graphics and visualization, computational quantum chemistry for molecular structure prediction, molecular mechanics force fields and their application, molecular dynamics simulations, QSAR, biochemical macromolecule modeling and analysis.

Requisites

Simple Requirements

Prerequisites: CHEM 3510 or equivalent and consent of instructor.

CHEM6410 - Adv Analytical Chemistry

General

College/School
Arts and Sciences

Course Title
Adv Analytical Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
6410

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Statistical interpretation of data; electronics of instrumentation; optimization of chromatographic methods; recent developments in spectroscopy, chromatography, and mass spectrometry.

Requisites

Simple Requirements

Prerequisite: CHEM 4520.

CHEM6610 - Advanced Biochemistry

General

College/School
Arts and Sciences

Course Title
Advanced Biochemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6610

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Current advanced topics in Biochemistry selected from recent peer-reviewed literary journals. Instruction, with practical exercises, in the step-by-step stages of grant planning, locating funding sources, and writing successful grant proposals.

Requisites

Simple Requirements

Prerequisite: CHEM4610 General Biochemistry I or CHEM5610 General Biochemistry I

CHEM6900 - Dir Studies-Chemistry

General

College/School
Arts and Sciences

Course Title
Dir Studies-Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
6900

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Investigation of a current area of research which is compatible with the student's interest and abilities. (Maximum credit toward degree is one hour.)

Requisites

Simple Requirements

Prerequisite: Graduate standing in chemistry.

CHEM6910 - Chemistry Literature Seminar

General

College/School
Arts and Sciences

Course Title
Chemistry Literature Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
6910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Review and oral presentation of current topic in chemical literature. (Maximum credit toward degree is one hour.)

Requisites

Simple Requirements

Prerequisite: Consent of thesis advisor.

CHEM6911 - Chemistry Thesis Seminar

General

College/School
Arts and Sciences

Course Title
Chemistry Thesis Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
6911

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
1

Course Description
Oral presentation of student's thesis research. (Maximum credit toward degree is one hour.)

Requisites

Simple Requirements

Prerequisites: Full standing in Chemistry, M.S. program, and consent of thesis advisor.

CHEM6970 - Advanced Special Topics

General

College/School
Arts and Sciences

Course Title
Advanced Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CHEM

Course Number
6970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Prerequisite: Consent of instructor. An advanced course for current topics in chemistry. Course may be taken for credit more than once.

Requisites

CHEM6990 - Research and Thesis

General

College/School
Arts and Sciences

Course Title
Research and Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CHEM

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Requisites

CJ5010 - Organized Crime

General

College/School
Arts and Sciences

Course Title
Organized Crime

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5010

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Organized crime in America as a product of legal, historical, cultural and economic forces. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore standing and SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or CJ2660 Criminology or SOC2660 Criminology or consent of instructor.

CJ5040 - Law & Culture (Anthropology)

General

College/School
Arts and Sciences

Course Title
Law & Culture (Anthropology)

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

A comparative cross-cultural analysis of primitive, traditional, and modern attitudes toward law, social control, punishment, and individual responsibility. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology consent of instructor.

CJ5100 - Probation and Parole

General

College/School
Arts and Sciences

Course Title
Probation and Parole

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Probation and parole services with special attention to current practices and issues. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and SOC1010 Intro to Sociology or CJ2660 Criminology or SOC2660 Criminology or SW1800 Intro to Social Work

CJ5120 - Case Management

General

College/School
Arts and Sciences

Course Title
Case Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CJ

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Individual and group methods used in counseling and treating offenders in both the institutional and community setting. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and SOC1010 Intro to Sociology or CJ2660 Criminology or SOC2660 Criminology or SW1800 Intro to Social Work.

CJ5250 - Drugs/Behavioral Pharmacology

General

College/School
Arts and Sciences

Course Title
Drugs/Behavioral Pharmacology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Relationships between drugs or drug groupings and human behavior, including toxicity, behavioral symptoms and historical aspects of drug abuse. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and SOC1010 Intro to Sociology or CJ2660 Criminology or SOC2660 Criminology

CJ5660 - Corrections

General

College/School
Arts and Sciences

Course Title
Corrections

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Correctional services, practices and issues with particular attention to the maximum security adult institution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and CJ2660 Criminology or SOC2660 Criminology or SW1800 Intro to Social Work or SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

CJ5700 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5700

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lab Hours

Lab Hours Min:
1

Lab Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Allows the student to undertake study in an area of criminology or criminal justice where there is no appropriate course. May be taken twice, provided that the topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

CJ5900 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

Requisites

CJ5915 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5915

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

Requisites

Simple Requirements

Prerequisite: Nine hours of sociology

CJ5925 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5925

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Nine hour internships are only available for internships that offer special opportunities that are not available in a 3 or 6 hour internship. The great majority of these will be summer internships that require the intern to work a 40 hour week. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 9 hours of credit.

Requisites

Simple Requirements

Prerequisite: Nine hours of sociology.

CJ5940 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5940

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CJ5941 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5941

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CJ5948 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5948

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CJ5949 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5949

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CJ5950 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Requisites

CJ5951 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5951

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Requisites

CJ5970 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in criminology or criminal justice Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CJ5980 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CJ

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in criminology or criminal justice Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

CJ5990 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CJ

Course Number
5990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in criminology or criminal justice Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

COMM5410 - Organizational Communication

General

College/School
Emerging and Integrative Studies

Course Title
Organizational Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites: Graduate-level status or by permission of the instructor. An exploration of communication principles operant in modern organizations and approaches to the understanding of communicative culture in these organizations.

COMM5420 - Adv Organizational Comm

General

College/School
Emerging and Integrative Studies

Course Title
Adv Organizational Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Approaches to the understanding of communicative cultures in modern organizations and their operant principles. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

COMM5430 - Interpersonal Communication

General

College/School
Emerging and Integrative Studies

Course Title
Interpersonal Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Communication theory applied to informal and face-to-face situations. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

COMM5610 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5610

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description

Seminar or lecture course on a selected topic, issue, or interest area in Communication Studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

COMM5620 - Advanced Public Speaking

General

College/School
Emerging and Integrative Studies

Course Title
Advanced Public Speaking

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: COMM 2025. Advanced oral communications as practiced from the platform, with emphasis on special types of speaking. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: COMM2025 Fundamentals of Communication.

COMM5630 - Persuasion

General

College/School
Emerging and Integrative Studies

Course Title
Persuasion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: COMM 2025 or consent of instructor. Promotes intellectual understanding and critical application of how individuals and groups influence the attitudes, beliefs, and behaviors of others. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

COMM6110 - Leadership and Communication

General

College/School
Emerging and Integrative Studies

Course Title
Leadership & Communications

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to introduce students to leadership perspectives and the role communication plays in effective leadership and management strategies. Prerequisites: Graduate status and admission to the Master of Professional Studies degree program or departmental approval.

Requisites

Simple Requirements

Prerequisites: Graduate status and admission to the Master of Professional Studies degree program or departmental approval.

COMM6115 - COMM6110-R50:Ldrshp & Comm.

General

College/School
TN eCampus Degree

Course Title
COMM6110-R50:Ldrshp & Comm.

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6115

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Graduate status and admission to the Master of Professional Studies degree program or departmental approval. This course is designed to introduce students to leadership perspectives and the role communication plays in effective leadership and management strategies.

COMM6120 - Managing Communication

General

College/School
Emerging and Integrative Studies

Course Title
Managing Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on communications that flow from manager to team members and employees. We will explore just how communication works (and fails to work) when multiple people are involved. You will be required to read a variety of articles (as mentioned above) and view a number of videos concerning communication. You are likely familiar with Ted Talks. We will use a number of those in the class. I invite you to look for others that are germane to the class. All of these are designed to enhance your understanding of what is a critically important field of study.

Requisites

Simple Requirements

Prerequisites: None

COMM6200 - Communication Strategies for Virtual Teams

General

College/School
Emerging and Integrative Studies

Course Title
Com Strat for Virtual Teams

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to explain the theoretical concepts of computer-mediated communication and team work for virtual teams. Students will learn to interact and lead virtual teams. Special focus will be on utilizing mediated channels (virtual meeting software, web, etc.) for remote employees and leaders.

COMM6610 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
6610

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in Communication Studies not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

COMM6700 - Conflict Mgmt & Negotiation

General

College/School
Emerging and Integrative Studies

Course Title
Conflict Mgmt & Negotiation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
6700

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Negotiation and Conflict Management presents negotiation theory—strategies and styles—within an employment context. A different topic will be presented each week. Students practice negotiating and learn how to negotiate in difficult situations.

Requisites

COMM6960 - Digital Audience Behavior Analysis and Insights

General

College/School
Emerging and Integrative Studies

Course Title
Dig Aud Behvr Anal & Insights

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6960

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is dedicated to exploring consumer behavior and audience research. The course covers what happens before, during and after the point of purchase. It investigates how having or not having certain products affects our lives, especially in the canon of social media and the digital age.

Requisites

Simple Requirements

Prerequisites: None

COMM6970 - Media Theory and Effects

General

College/School
Emerging and Integrative Studies

Course Title
Media Theory and Effects

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COMM

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is an analysis of historical and current theories of mass communication with an emphasis on media effects and the application of mass communication theory to social, political, economic, legal and ethical aspects of modern society. The course begins by providing a framework for evaluating mass communication theory, then focuses on deconstructing and applying four main theories (diffusion of innovation, uses and gratifications, social learning theory, and agenda setting), as well as a range of related mass communication theories.

COMM6980 - Strategic Communication

General

College/School
Emerging and Integrative Studies

Course Title
Strategic Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6980

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course uses communicators and real communication decisions to introduce students to communication strategies. It examines social, economic, technological, legal, ethical, and other environmental factors and their impact on communication practices using real-world applications. It provides students with the knowledge and skills needed to communicate products, services, and ideas in a global marketplace.

Requisites

Simple Requirements

Prerequisites: None

COMM6990 - Design Strategies and Promotions

General

College/School
Emerging and Integrative Studies

Course Title
Dsgn Strategies & Promotions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COMM

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide graduate students an opportunity to research the subliminal effects of various graphic design structures and tools on consumers' decision-making processes.

Requisites

Simple Requirements

Prerequisites: None

COMM6998 - Professional Project

General

College/School
Emerging and Integrative Studies

Course Title
Professional Project

Academic Level (Course Level)
Graduate

Course Subject Code
COMM

Course Number
6998

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

COOP5010 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5010

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

- Must have completed one grading cycle (semester) as a Tennessee Tech student

- Must be in Good Academic Standing at the acceptance of the employer offer through start date

- Attend a Co-op Meetup information session

- Maintain enrollment in the course the entire duration of the assignment, including summer semesters

COOP5020 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5020

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5030 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5030

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5040 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5040

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5050 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5050

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5060 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COOP

Course Number
5060

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5070 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COOP

Course Number
5070

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
1

Billing Hours

Billing Hours Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COOP5080 - Co-op Off-Campus Assignments

General

College/School
Independent Programs

Course Title
Co-op Off-Campus Assignments

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COOP

Course Number
5080

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Co-op assignment is full-time, degree-related employment. One (1) credit hour will be granted per semester, without academic credit toward graduation, unless curriculum states otherwise. A written report and employer evaluation will be required each semester on assignment. A grade of S (satisfactory) or U (unsatisfactory) will be reported by the Center for Career Development Office to the Records Office.

Requisites

Simple Requirements

Prerequisite: The individual must have met the following to be eligible for enrollment in the Cooperative Education Program:

Co-op Meetup Information Session

· Attendance of a Co-op Meetup Information Session is required. These sessions are offered in the fall and spring semesters with available dates listed within Handshake Events.

Must be a current Tennessee Tech Student

· Must have completed one grading cycle (semester) as a Tennessee Tech Student.

· Maintain enrollment in the course the entire duration of the assignment, including summer semesters.

Academic Good Standing

· Student must be in Good Standing at the time of the employer offer through the start date.

COUN6000 - Counseling Across the Lifespan

General

College/School
Education and Human Sciences

Course Title
Counseling Across the Lifespan

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on central issues and counseling strategies related to human development that arise across the lifespan. Course will evaluate the continuity and change occurring within the developing individual in cognitive, social, emotional and physical domains from birth to death. Course will satisfy both national accreditation and state licensing requirements.

COUN6300 - Introduction to Counseling: Foundations, Ethics and Legal Issues

General

College/School
Education and Human Sciences

Course Title
Intro Couns:Fnds,Ethics&Lgl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introductory course in counseling. Overview of philosophy, basic elements, ethics, and principles of counseling. Knowledge of ethical standards of practice and legal issues in counseling.

COUN6320 - Group Counseling

General

College/School
Education and Human Sciences

Course Title
Group Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course Description: Prerequisite: COUN 6300, COUN 6360, and COUN 6362. Introductory course in group counseling; objectives, principles, and techniques of group counseling.

Requisites

Simple Requirements

Prerequisite: COUN 6300, COUN 6360, and COUN 6362.

COUN6330 - Organization/ Administration-School Counseling Program

General

College/School
Education and Human Sciences

Course Title
Org/Admin-School Couns Prog

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
6330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Major principles of sound administrative practice and organization of student personnel services; leadership and consultation.

COUN6335 - Professional Issues in Education Settings

General

College/School
Education and Human Sciences

Course Title
Prof Issues in Ed Settings

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6335

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will focus on the development of skills and strategies to address professional issues in the PreK-12 school setting. Personal teaching philosophies, strategies for conceptualization, curriculum development, evaluation and didactic skills will be learned and demonstrated by students planning to combine teaching and counseling in the school setting.

COUN6360 - Counseling Skills

General

College/School
Education and Human Sciences

Course Title
Counseling Skills

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Study and application of basic counseling skills, the major Psychoanalytic and Existential/Humanistic theories of counseling and practical applications.

COUN6362 - Counseling Theories

General

College/School
Education and Human Sciences

Course Title
Counseling Theories

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6362

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Study and application of basic counseling skills, the major Cognitive/Behavioral and Postmodern theories of counseling and practical applications.

COUN6370 - Family Counseling

General

College/School
Education and Human Sciences

Course Title
Family Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to family systems and techniqures of family counseling.

COUN6380 - Multicultural Counseling

General

College/School
Education and Human Sciences

Course Title
Multicultural Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6380

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Exploration of the human experience in its nuanced and contextual variety, focusing on meaning-making, empathy, and the counselor’s capacity for genuine presence across a multitude of life experiences. The course integrates theory and practice to foster counselor self-awareness and relational competence.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

COUN6385 - Counseling Children/ Adolescent

General

College/School
Education and Human Sciences

Course Title
Counseling Children/Adolescent

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6385

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will focus on specific counseling strategies related to children and adolescents. Cognitive, social, emotional and physical domains of this population will be examined with assessment, preliminary diagnosis and treatment options for individuals as primary issues. Course will satisfy both national accreditation and state licensing requirements.

COUN6410 - Career Counseling/ Development

General

College/School
Education and Human Sciences

Course Title
Career Counseling/Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Types of information for counseling; community resources; principles and techniques of career planning.

COUN6430 - Neuroscience for Counselors

General

College/School
Education and Human Sciences

Course Title
Neuroscience for Counselors

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The purpose of this course is to provide students with an overview of the structure and function of the human brain, including how the human brain influences and is influenced by biology, environment, and experiences. Using this information, students will be better equipped to a) evaluate popular publications related to brain wellness and psychological disorders, and b) intervene in strategic and appropriate ways.

COUN6460 - Addiction Counseling

General

College/School
Education and Human Sciences

Course Title
Addiction Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Focus on the abuser, the abuser’s environment, and strategies for rehabilitation.

COUN6500 - Play Therapy

General

College/School
Education and Human Sciences

Course Title
Play Therapy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theories and techniques of play therapy.

COUN6550 - Spirituality in Counseling

General

College/School
Education and Human Sciences

Course Title
Spirituality in Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Developing competencies for addressing spiritual and religious issues in counseling.

COUN6630 - Theories of Personality

General

College/School
Education and Human Sciences

Course Title
Theories of Personality

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Major theoretical treatments of personality development and structure with emphasis upon generated psychological research.

COUN6670 - Assessment in Counseling

General

College/School
Education and Human Sciences

Course Title
Assessment in Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6670

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will focus on the variety of assessment instruments utilized by counseling and psychology professionals and their role in making appropriate recommendations and planning for treatment.

COUN6680 - Trauma/Grief/Crisis Counseling

General

College/School
Education and Human Sciences

Course Title
Trauma/Grief/Crisis Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6680

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre- or Co-requisite: COUN 6800. This course will focus on risk assessment, safety planning, preliminary intervention and follow up planning relevant to crises occurring in the helping professions. Course will satisfy both national accreditation and state licensing requirements.

Requisites

Simple Requirements

Pre- or Co-requisite: COUN 6800.

COUN6800 - Practicum

General

College/School
Education and Human Sciences

Course Title
Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: COUN 6300, COUN 6362, COUN 6360. Supervised practice in counseling; application of theories, principles and practices; development of counseling techniques.

Requisites

Simple Requirements

Prerequisites: COUN 6300, COUN 6360, COUN 6362.

COUN6820 - Internship/Mental Health Counseling

General

College/School
Education and Human Sciences

Course Title
Intrnshp/Mntl Hlth Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6820

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
6

Course Description
Supervised experience in an appropriate community mental health placement. Students must complete 300 hours of supervised mental health counseling work experience. Students must take COUN 6821 after completing COUN 6820.

COUN6821 - Intrnship/Mntl Hlth Counseling

General

College/School
EH

Course Title
Intrnship/Mntl Hlth Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6821

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
6

Course Description
Prerequisite: COUN 6820. Supervised experience in an appropriate community mental health placement. Students must complete 300 hours of supervised mental health counseling work experience.

Requisites

Simple Requirements

Prerequisite: COUN6820 Intrnshp/Mntl Hlth Counseling.

COUN6830 - Internship/School Counseling

General

College/School
EH

Course Title
Internship/School Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
6830

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
6

Course Description
Prerequisite: COUN 6360, COUN 6362 and COUN 6320. Supervised experience in an appropriate school placement.

Requisites

Simple Requirements

Prerequisite: COUN6360 Counseling Skills, COUN6362 Counseling Theories,and COUN6320 Group Counseling.

COUN7300 - Seminar in Counseling

General

College/School
Education and Human Sciences

Course Title
Seminar in Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
7300

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Course Description: Prerequisite: Advanced graduate standing and permission of instructor. A critical study of current issues in counseling. Course may be repeated if topic is different.

Requisites

Simple Requirements

Prerequisite: Advanced graduate standing and permission of instructor.

COUN7320 - Advanced Group Counseling/ Addiction & Specialized Populations

General

College/School
Education and Human Sciences

Course Title
Adv Grp Cnsl/Addct & Sp Popl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Clinical skills needed in working with addiction treatment modalities and other treatment modalities associated with specialized populations. Prerequisite: Permission of director of doctoral studies.

COUN7360 - Couples Counseling

General

College/School
Education and Human Sciences

Course Title
Couples Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to a licensure track program in Counseling and Psychology Graduate Programs. This course focuses on evidenced-based therapeutic interventions and techniques specifically used in treating couples.

COUN7370 - Supervision & Prof Issues in Counseling

General

College/School
EH

Course Title
Counseling Supervision

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Explores the purposes, theoretical frameworks, models, and skills related to counseling supervision. Also addresses legal, ethical, and culturally relevant issues. The course includes practice learning and opportunities to develop a personal style of supervision. Prerequisite: Permission of instructor.

Requisites

Simple Requirements

Prerequisite: Permission of instructor.

COUN7400 - Advanced Counseling Theories and Techniques

General

College/School
EH

Course Title
Adv Coun Theories & Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

An in-depth and comprehensive exploration of the theoretical foundations and application of selected counseling approaches. Prerequisite: Permission of the instructor.

Requisites

Simple Requirements

Prerequisites: Permission of instructor.

COUN7470 - Motivational Interviewing

General

College/School
Education and Human Sciences

Course Title
Motivational Interviewing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides a wide-ranging overview of Motivational Interviewing. Students will learn the philosophical, theoretical, and practical aspects of Motivational Interviewing to enhance their understanding and proficiency in this therapeutic approach. Students will develop Motivational Interviewing skills and resources that will enrich their professional practice.

Requisites

Simple Requirements

Prerequisite: Advanced graduate standing and permission of instructor.

COUN7500 - Research/Scholarship/ Publication

General

College/School
Education and Human Sciences

Course Title
Rsrch/Schlrshp/Publication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Exploration of emergent research practices and processes, professional writing and conference proposal preparation, and ethical and culturally relevant strategies for conducting research. Prerequisite: permission of director of doctoral studies.

COUN7510 - Counseling Administration/ Program Evaluation

General

College/School
Education and Human Sciences

Course Title
Counseling Admn/Progrm Eval

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An exploration of theories and practice of program evaluation and knowledge of accreditation standards and processes in counseling. Prerequisite: permission of director of doctoral studies.

COUN7600 - Diagnosis and Treatment

General

College/School
Education and Human Sciences

Course Title
Diagnosis and Treatment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
7600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focus on diagnosis, etiology, treatment options and the assessment of mental disorders.

COUN7610 - Teaching in Counselor ED

General

College/School
Education and Human Sciences

Course Title
Teaching in Counselor ED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An introduction to the major roles, responsibilities, and activities of counselor educators. Includes instructional theory and methods, and addresses the ethical, legal, and culturally relevant issues associated with counselor preparation training. Prerequisite: Permission of instructor.

COUN7700 - Advanced Multicultural Counseling: Leadership/Advocacy

General

College/School
Education and Human Sciences

Course Title
Adv Multicltr Cnslg:Ldrsp/Advo

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theories and skills of leadership, advocacy models, and culturally relevant issues. Exploration of current topical and political issues in counseling and how these issues affect the counseling profession. The course also includes practice in development leadership and advocacy skills. Prerequisite: permission of director of doctoral studies.

COUN7730 - Qualitative Research Methods/ Counseling

General

College/School
Education and Human Sciences

Course Title
Qualitative Rsrch Meth/Counsl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of skills necessary to understand, interpret, and conduct qualitative research in counseling. Prerequisite: Permission of director of doctoral studies.

COUN7740 - Advanced Quantitative Inquiry/ Research Design

General

College/School
Education and Human Sciences

Course Title
Adv Quant Inquiry/Rsrch Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced skills used to conduct quantitative research in counseling. Prerequisite: Permission of director of doctoral studies.

COUN7750 - Advanced Qualitative Inquiry/ Research Design

General

College/School
Education and Human Sciences

Course Title
Adv Qual Inquiry/Rsrch Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An in-depth analysis of the various forms of qualitative research. Prerequisite: Permission of director of doctoral studies.

COUN7770 - Scale Constr. & Psychometrics

General

College/School
Education and Human Sciences

Course Title
Scale Constr. & Psychometrics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7770

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines theories and practices related to scale development and psychometric evaluation within counseling, counselor education, and supervision. Students explore the design, refinement, and evaluation of assessment instruments, with emphasis on reliability, validity, factor analysis, and ethically responsive measurement practices.

Requisites

No Requirements

COUN7820 - Doctoral Internship

General

College/School
Education and Human Sciences

Course Title
Doctoral Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Supervised experiences in counseling and supervision (e.g., clinical practice, supervision, research and scholarship, teaching, and/or leadership and advocacy). Prerequisite: Permission of director of doctoral studies. May be repeated for credit.

COUN7830 - Internship/School Counseling

General

College/School
EH

Course Title
Internship/School Counseling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
7830

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
6

Course Description
Prerequisite: COUN 6360, COUN 6362 and COUN 6320. Supervised experience in an appropriate school placement.

Requisites

Simple Requirements

Prerequisite: COUN6360 Counseling Skills, COUN6362 Counseling Theories, and COUN6320 Group Counseling.

COUN7840 - Regional Mental Health/ Addiction Services

General

College/School
Education and Human Sciences

Course Title
Regnl Mntl Hlth/Addct Srvcs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Exploration of challenges specific to rural, special, and under-served populations with mental health and substance abuse treatment services. Prerequisites: Permission of director of doctoral studies.

COUN7850 - Advanced Res Methods & Design

General

College/School
Education and Human Sciences

Course Title
Advanced Res Methods & Design

Academic Level (Course Level)
Doctoral

Course Subject Code
COUN

Course Number
7850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Advanced knowledge and skills used to design and conduct qualitative, quantitative, and mixed-methods research. A core component of the course is the development of a preproposal for dissertation research, which serves as a preliminary blueprint for students' doctoral dissertations.

Requisites

No Requirements

COUN7940 - Professional Accountability

General

College/School
Education and Human Sciences

Course Title
Professional Accountability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
COUN

Course Number
7940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Offers the emerging professional an opportunity to become familiar with the various uses of data and how to collect, analyze, interpret, report and utilize information. Assist the student in developing effective and legal/ethical critical thinking and problem solving skills, by offering real world situations for examination. Meets an identified state licensing requirement for school and counseling concentrations.

COUN7970 - Directed Experience in Counseling Research

General

College/School
Education and Human Sciences

Course Title
Directed Exp in Couns Rsrch

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
COUN

Course Number
7970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Research experience under the supervision of a faculty member. Prerequisite: Permission of director of doctoral studies. May be repeated for credit.

COUN7990 - Dissertation Research

General

College/School
Education and Human Sciences

Course Title
Dissertation Research

Academic Level (Course Level)
Doctoral, Specialist in Education

Course Subject Code
COUN

Course Number
7990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
9

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
9

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
9

Course Description
May be repeated. A minimum of 6 hours over two semesters required. Enrollment restricted to students who have successfully completed comprehensive examinations. Dissertation work under direction of dissertation committee.

CSC5010 - Programming Languages

General

College/School
Engineering

Course Title
Programming Languages

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concepts distinguishing modern programming languages with emphasis on language design, implementation, and run-time behavior. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CSC 2710, 3410. C or better in CSC 3410 and CSC 3710.

CSC5020 - Compiler Construction

General

College/School
Engineering

Course Title
Compiler Construction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Programming language translator design with emphasis on design concepts, parsing, code generation, tools, and code improvement; construction of a small compiler. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CSC 2710, 3410. C or better in CSC 3410 and CSC 3710.

CSC5100 - Operating Systems

General

College/School
Engineering

Course Title
Operating Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A historical perspective of operating systems; overview of modern systems; processor, storage, and process management; virtual memory; deadlocks; concurrent processing and programming; protection; and case studies. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: C or better in CSC 1310 or both CSC2110 Data Structures/ Algorithms and CSC2111 Data Structures/Algorithms Lab; and C or better in CSC3410 Comp Org/Assemb Lang Prog or ECE3130 Microcomputer Systems.

CSC5200 - Computer Networks

General

College/School
Engineering

Course Title
Computer Networks

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Data communications and computer networks; network models and protocols; local area networks; and data security. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in CSC 2400.

CSC5220 - Data Mining/Machine Learning

General

College/School
Engineering

Course Title
Data Mining/Machine Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: MATH 2010 and (MATH 3070 or MATH 3470 or MATH 4470 or MATH 5470) and CSC 2310 and (CSC 2700 or MATH 2610 or MATH 3400). Basic concepts of reverse engineering and general techniques used for reverse engineering. Reverse engineering applied to basic static and dynamic analysis of executables, and hands-on exercises using software analysis tools and best practices. Additional topics may include the study of malware behavior and techniques that malware uses to thwart detection and analysis.

Requisites

Simple Requirements

Prerequisite: MATH 2010 and (MATH 3070 or MATH 3470 or MATH 4470 or MATH 5470) and CSC 2310 and (CSC 2700 or MATH 2610 or MATH 3400).

CSC5240 - Artificial Intelligence

General

College/School
Engineering

Course Title
Artificial Intelligence

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A unified survey of AI methods and applications; search and problem solving; knowledge representation; methods of reasoning, planning, and uncertainty; learning, perception, and communication; rational agents. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in CSC2400 Design of Algorithms.

CSC5260 - Adv Data Sci & Applications

General

College/School
Engineering

Course Title
Adv Data Sci & Applications

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Project-oriented course that exposes the students to advanced data science topics and the real-world application of data science. Students will learn MapReduce/Hadoop, advanced visualization techniques, and a variety of data acquisition tools. Students will also explore issues surrounding data management and data privacy. In addition, students will complete a data science capstone project connected by a theme selected by the instructor, immersing students in the data science exploration of topics in areas such as healthcare, sports, cybersecurity. The course requires students to put into practice advanced data science techniques that address the full data science life cycle.

Requisites

Simple Requirements

Prerequisites: CSC3220 Fundamentals of Data Science, CSC3300 Database Mgmt Systems, and MATH2010 Introduction to Linear Algebra.

CSC5320 - Computer Architecture

General

College/School
Engineering

Course Title
Computer Architecture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Computer systems, the CPU, the control unit, microprogramming, parallel organization, RISC architectures. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CSC3410 Comp Org/Assemb Lang Prog or equivalent.

CSC5400 - Analysis of Algorithms

General

College/School
Engineering

Course Title
Analysis of Algorithms

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis techniques; search, traversal, string, and graph algorithms; NP-hard and NP-complete problems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in CSC 2400.

CSC5450 - Intro Auto Theory & Comp

General

College/School
Engineering

Course Title
Intro Auto Theory & Comp

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Finite automata; regular sets; context-free languages; pushdown automata; Turing machines; recursive languages; computability; computational complexity. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CSC 2710. CSC 2400 recommended.

CSC5500 - Comp Architect-Microcomputers

General

College/School
Arts and Sciences

Course Title
Comp Architect-Microcomputers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5500

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Architecture, organization, and machine language programming of microcomputers; microprocessor architecture; interrupts and I/O; real time applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CSC 3410.

CSC5560 - Embedded Software Systems

General

College/School
Arts and Sciences

Course Title
Embedded Software Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: CSC 3700, CSC 3310, CSC 3410, CSC 3400. This is a project oriented, senior/graduate level course to introduce students to the core design and engineering ideas that cut across hardware and software domains for the design and development of embedded software systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

CSC5575 - Cryptography/Network Security

General

College/School
Engineering

Course Title
Cryptography/Network Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5575

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course introduces students to the fundamentals of information assurance and cryptographic techniques along with their application to the prevention, detection, and mitigation of cyber threats. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior standing and C or better in CSC1310 Data Structures and Algorithms.

CSC5580 - Software Reverse Engineering

General

College/School
Engineering

Course Title
Software Reverse Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic concepts of reverse engineering and general techniques used for reverse engineering. Reverse engineering applied to basic static and dynamic analysis of malware executables. Study of malware behavior, techniques that malware uses to thwart detection and analysis, and hands-on exercises using malware analysis tools and best practices.u2028

Requisites

Simple Requirements

Prerequisites: CSC2400 Design of Algorithms.

CSC5585 - Software and Systems Security

General

College/School
Engineering

Course Title
Software and Systems Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5585

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This Software and Systems Security course will integrate and implement modern secure software engineering practices into the Computer Science (CS) curriculum. The novelty of the proposed course into the existing CS curriculum is the integration of state-of-the-art software engineering best practices with security engineering, such as automated testing and automated vulnerability assessment.

Requisites

Simple Requirements

Prerequisites: None

CSC5700 - Software Engineering

General

College/School
Arts and Sciences

Course Title
Software Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Object-oriented system development, the translation process, coding efficiency, software quality assurance, CASE tools and technology, integration and testing tools, advanced software maintenance environments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: CSC 3700, or consent of instructor.

CSC5710 - Dsgn/Dev-Human/Web Interface

General

College/School
Engineering

Course Title
Dsgn/Dev-Human/Web Interface

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A course in human-computer interaction design and user interface development. It will expose students to tools, techniques, and ideas for designing effective human computer interfaces and discuss practical and legal aspects of accessibility. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: C or better in CSC 1310 or both CSC2110 Data Structures/ Algorithms and CSC2111 Data Structures/Algorithms Lab; and C or better in CSC3030 Pract/Prof Issues-Comp Sci or CSC3040 Profsnlsm, Comm, Rsrch in Comp.

CSC5750 - Computer Graphics

General

College/School
Engineering

Course Title
Computer Graphics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: MATH 2010 and "C" or better in CSC 2400. Interactive graphical techniques including three-dimensional transformations, hidden surface removal, texture mapping, and shading.

Requisites

CSC5760 - Parallel Programming

General

College/School
Engineering

Course Title
Parallel Programming

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5760

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Foundations of parallel computing including the parallel computer architectures, principles of parallel algorithm design, programming for shared and distributed-memory systems, along with GPGPU. Students enrolled in the 5000-level course will be required to complete additional work as state din the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in CSC 2400 and CSC 2500 and CSC 2510.

CSC5770 - Distributed & Cloud Computing

General

College/School
Engineering

Course Title
Distributed & Cloud Computing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5770

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will cover the concepts in distributed systems including distributed computing, networking, operating systems, cloud, and programming languages. Furthermore, it will examine current applied topics in distributed systems.

Requisites

Simple Requirements

Prerequisites: CSC2400 Design of Algorithms or consent of instructor (graduate).

Corequisite: none..

CSC5800 - Directed Readings-CSC

General

College/School
Engineering

Course Title
Directed Readings-CSC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course provides for individual study under the direction of a faculty member in developing areas of computer science. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC5801 - Directed Readings in CSC

General

College/School
Engineering

Course Title
Directed Readings in CSC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5801

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course provides for directed independent study under the direction of a faculty member in Computer Science.

Requisites

CSC5802 - Directed Studies in CSC

General

College/School
Engineering

Course Title
Directed Studies in CSC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5802

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course provides for directed independent study under the direction of a faculty member in Computer Science.

Requisites

CSC5803 - Directed Studies in CSC

General

College/School
Engineering

Course Title
Directed Studies in CSC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5803

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides for directed independent study under the direction of a faculty member in Computer Science.

Requisites

CSC5900 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5900

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

CSC5901 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5901

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be taken multiple times, provided the topic is different.

Requisites

CSC5902 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5902

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be taken multiple times, provided the topic is different.

Requisites

CSC5903 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
5903

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. Timely topics in computer science. May be taken multiple times, provided the topic is different.

Requisites

CSC5955 - Info Assur/Security Case Stu

General

College/School
Arts and Sciences

Course Title
Info Assur/Security Case Stu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
5955

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This class will follow a dilemma-based case study approach to study IAS related issues such as policies, human factors, evidence gathering, etc.

Requisites

Simple Requirements

Prerequisites: Consent of instructor.

CSC6100 - Professionalism in Industry

General

College/School
Engineering

Course Title
Professionalism in Industry

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
CSC

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Graduate Standing or consent of the instructor/faculty advisor. This course will introduce students to soft skills, including teamwork, communication, and mentoring, as well as project management and ethics, including AI, in preparation for entry into industry. Hands-on activities will allow the student to experience different modes of interaction to enable success in industry.

Requisites

Simple Requirements

Prerequisite: Graduate standing or consent of the Instructor/Faculty Advisor.

CSC6200 - Secure E-Commerce

General

College/School
Arts and Sciences

Course Title
Secure E-Commerce

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: CSC 4200 or consent of instructor. Protocols, methodologies and techniques to design and develop applications for web-based information and transaction processing, encryption and decryption issues in web-based data communication protocols.

Requisites

CSC6220 - Data Mining

General

College/School
Engineering

Course Title
Data Mining

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Preparing data for mining using preprocessing, data warehouses, and OLAP; data mining techniques, including association rule mining, classification/ prediction and cluster analysis; study of recent techniques and issues.

Requisites

Simple Requirements

Prerequisite: CSC4220 Data Mining/Machine Learning(CSC5220 Data Mining/Machine Learning) or CSC4240 Artificial Intelligence(CSC5240 Artificial Intelligence).

CSC6230 - Machine Learning

General

College/School
Engineering

Course Title
Machine Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to machine learning techniques, such as decision tree induction, k-nn classifiers, and clustering. Emphasis on supervised learning, including classification techniques, feature selection, and evaluation techniques. Unsupervised and reinforcement learning will also be covered.

Requisites

Simple Requirements

Prerequisite: CSC4220 Data Mining/Machine Learning(CSC5220 Data Mining/Machine Learning) or CSC4240 Artificial Intelligence(CSC5240 Artificial Intelligence).

CSC6240 - Math/Theory-Machine Lrning

General

College/School
Engineering

Course Title
Math/Theory-Machine Lrning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The purpose of this course is to gain a deeper understanding of the foundational mathematics and theory of machine learning. We will cover a number of mathematical topics that underpin the thinking behind and implementation of machine learning, including topics from linear algebra, probability & statistics, multivariate calculus, information theory, algorithmic analysis, and algorithmic complexity. This includes mathematical frameworks for learning, algorithms for learning concept classes, with an emphasis on proving bounds on the resources (time, space, sample complexity) required by these algorithms, and methods for proving the intractability of certain learning tasks.

Requisites

Simple Requirements

Prerequisites: CSC4400 Analysis of Algorithms (CSC5400 Analysis of Algorithmsor consent of instructor.

CSC6250 - Knowledge-Based/Expert Systems

General

College/School
Engineering

Course Title
Knowledge-Based/Expert Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Knowledge-based systems and logic programming, methods of knowledge representation, and inference. Applications to expert systems and intelligent data bases.

Requisites

Simple Requirements

Prerequisite: CSC 5240 or consent of instructor.

CSC6260 - Advanced Topics in A.I.

General

College/School
Engineering

Course Title
Advanced Topics in A.I.

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will cover a variety of selected topics from the field of artificial intelligence, and their application. Possible topics include advanced pattern recognition, neural networks, expert systems, image processing, and natural language processing.

Requisites

Simple Requirements

Prerequisites: CSC4240 Artificial Intelligence or CSC5240 Artificial Intelligence.

CSC6300 - Advanced Database Systems

General

College/School
Engineering

Course Title
Advanced Database Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced concepts in designing database applications, techniques for data storage and retrieval in large databases, etc.

Requisites

Simple Requirements

Prerequisites: CSC4300 Database Mgmt Systems or consent of instructor.

CSC6320 - Adv Computer Architecture

General

College/School
Engineering

Course Title
Adv Computer Architecture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis and design of large-scale computer systems, such as pipelined and vector architectures, etc.

Requisites

Simple Requirements

Prerequisites: CSC 4100, CSC 4320, or consent of instructor.

CSC6400 - Adv Analysis of Algorithms

General

College/School
Engineering

Course Title
Adv Analysis of Algorithms

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Algorithmic analysis techniques and their application to a wide variety of both fundamental and advanced algorithms with an emphasis on formal techniques; complexity classes; and approximation algorithms.

Requisites

Simple Requirements

Prerequisite: CSC2400 Design of Algorithms CSC2400 or consent of Instructor.

CSC6450 - Adv Theory of Computation

General

College/School
Engineering

Course Title
Adv Theory of Computation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A rigorous treatment of the theory of computation. Topics such as: computable functions, the Church-Turing thesis, complexity theory, and P vs NP.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor (previous coursework involving proofs and some programming experience are needed).

CSC6460 - Comp Meth/Graphics & Modeling

General

College/School
Engineering

Course Title
Comp Meth/Graphics & Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical methods for graphics and modeling. Topics such as: 3-D transformations, ray tracing, rendering, image processing, and compression.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor (previous coursework involving proofs and some programming experience are needed).

CSC6570 - Cloud Security Fundmntl/Pract

General

College/School
Engineering

Course Title
Cloud Security Fundmntl/Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The course will discuss the fundamentals of cloud computing, architecture, and explore the guiding security design and development principles, security patterns, industry standards, applied technologies and addressing regulatory compliance requirements critical to design, implement, deliver and manage secure cloud-based services. The topics may include but are not limited to Cloud Computing and Internet of Things fundamentals, architectures and security challenges, distributed systems security, formal models for computer security, Security mechanisms in state-of-the-art cloud providers including AWS, Google Cloud, Azure, privacy and ethics, virtual objects or device shadows (Digital Twins) critical infrastructure protection, malware analysis using machine learning, Zero Trust, federated architectures, containers, network security protocols.

Requisites

Simple Requirements

Prerequisites: MS or PhD standing in Computer Science or related programs at TTU.

CSC6575 - Internet Security

General

College/School
Engineering

Course Title
Internet Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6575

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course studies security-related challenges and solutions in the complex environment of the Internet. Students learn about cyber threats against and protection for Internet elements such as various networking, wireless and web-based protocols, and applications.

Requisites

Simple Requirements

Prerequisite: CSC4575 Cryptography/Network Security/CSC5575 Cryptography/Network Security or consent of instructor.

CSC6580 - Advanced Reverse Engineering

General

College/School
Engineering

Course Title
Advanced Reverse Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Review of basic concepts of reverse engineering and general techniques used for reverse engineering, and study of advanced techniques of reverse engineering, which may include techniques for detection and analysis of malware and the study of self-modifying malware and obfuscation techniques.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

CSC6585 - Secure Software Development

General

College/School
Engineering

Course Title
Secure Software Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6585

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The proposed Secure Software Development course will teach students about the design and development of secure software such that insecure coding patterns and security misconfigurations are mitigated early in the software life cycle. Students will learn about different types of insecure configurations, coding patterns, and vulnerabilities. They will also get hands-on experience on program analysis techniques, such as fuzzing and static analysis. Furthermore, they will learn about requirements analysis and design of secure software. Upon completion of the course, students will be able to develop their own program analysis tools, which will apply software security knowledge of test systems for security vulnerabilities.

Requisites

Simple Requirements

Prerequisites: None

CSC6590 - Application Security

General

College/School
Engineering

Course Title
Application Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6590

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course covers techniques to find and exploit various vulnerabilities in programming languages, blockchain-based applications, web applications, and database management systems. Mitigation strategies to prevent software vulnerabilities, including static source code analysis, compiler-based and runtime-based memory protection techniques, database encryption, secure data containers, and code obfuscation are covered, as well. This course also introduces the fundamentals of hardware-based data protection, including Intel® SGX and ARM® TrustZone® technologies.

Requisites

Simple Requirements

Prerequisites: Graduate standing OR C or better in CSC4100 CSC4100 Operating Systems and C or better in CSC4575 CSC4575 Cryptography/ Network Security.

CSC6710 - Humn-Comp Intractn/Intrfc Dsgn

General

College/School
Arts and Sciences

Course Title
Humn-Comp Intractn/Intrfc Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Current issues and trends in human-computer interaction design, their evaluation, choice of selection devices and interaction styles, etc.

Requisites

Simple Requirements

Prerequisites: CSC 4010, CSC4700 Software Engineering, or CSC 6700, or consent of instructor.

CSC6730 - Advanced Networking

General

College/School
Engineering

Course Title
Advanced Networking

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Computer network protocols that are usually beyond the scope of a standard course in computer networks. Wireless networks and multimedia networks, advanced topics on network protocols, and readings on selected research papers will be discussed.

Requisites

CSC6740 - Parallel/Distributed Algorithm

General

College/School
Engineering

Course Title
Parallel/Distributed Algorithm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Design and analysis of parallel and distributed algorithms for modern parallel and distributed architectures.

Requisites

Simple Requirements

Prerequisites: CSC4760 Parallel Programming or CSC5760 Parallel Programming or consent of the instructor.

CSC6780 - Distributed Computing

General

College/School
Engineering

Course Title
Distributed Computing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6780

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theories, principles, and practices relevant to the design of distributed systems including synchronization, naming, replication and consistency, file system and security.

Requisites

Simple Requirements

Prerequisites: CSC4100 Operating Systems(CSC5100 Operating Systems) and CSC4200 Computer Networks(CSC5200 Computer Networks).

CSC6801 - Directed Independent Study

General

College/School
Engineering

Course Title
Directed Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6801

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Engage student in independent learning on a selected topic under the guidance of an instructor.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC6802 - Directed Independent Study

General

College/School
Engineering

Course Title
Directed Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6802

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Engage student in independent learning on a selected topic under the guidance of an instructor.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC6803 - Directed Independent Study

General

College/School
Engineering

Course Title
Directed Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6803

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Engage student in independent learning on a selected topic under the guidance of an instructor.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC6900 - Graduate Internship

General

College/School
Engineering

Course Title
Graduate Internship

Academic Level (Course Level)
Graduate

Course Subject Code
CSC

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisites: CSC 6100 and consent of the instructor/faculty advisor. Internship performed at a sponsoring entity performing work related to the student's area of emphasis in their computer science graduate studies. Written objectives, a written internship analysis, and a committee presentation are required.

Requisites

Simple Requirements

Prerequisites: CSC 6100 Professionalism in Industry and consent of the Instructor/Faculty Advisor.

CSC6901 - Advanced Topics

General

College/School
Engineering

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6901

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Prerequisite: Consent of instructor. Advanced topics in computer science. May be repeated for credit if the topic is different.

Requisites

CSC6902 - Advanced Topics

General

College/School
Engineering

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6902

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Prerequisite: Consent of instructor. Advanced topics in computer science. May be repeated for credit if the topic is different.

Requisites

CSC6903 - Advanced Topics

General

College/School
Engineering

Course Title
Advanced Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6903

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Consent of instructor. Advanced topics in computer science. May be repeated for credit if the topic is different.

Requisites

CSC6910 - Computer Science Seminar

General

College/School
Engineering

Course Title
Computer Science Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
6910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

CSC6980 - Masters Project

General

College/School
Engineering

Course Title
Masters Project

Academic Level (Course Level)
Graduate

Course Subject Code
CSC

Course Number
6980

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Prerequisites: Consent of instructor. This course is a requirement for graduate students pursuing the project option. The course is directed by the student's graduate advisor(s).

Requisites

CSC6990 - Research & Thesis

General

College/School
Engineering

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
This course involves independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis.

Requisites

CSC7210 - Anomaly/Intrusion Detect Sys

General

College/School
Engineering

Course Title
Anomaly/Intrusion Detect Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7210

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Traditional intrusion and anomaly detection systems, as well as current advances in this ever-growing field. The application of anomaly detection to a wide-range of domains, including fraud, insider threats, and time-series data will be investigated in-depth, as well as network attacks and the systems for detecting oddities such as network intrusions and denial of service attacks. This course will not only cover the subjects through readings, but also through hands-on experience.

Requisites

Simple Requirements

Prerequisite: CSC 6220 or CSC6230 Machine Learning

CSC7240 - Intelligent Information Sys

General

College/School
Engineering

Course Title
Intelligent Information Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Combines fundamental research in artificial intelligence with application-oriented research in knowledge discovery, decision-support systems, and adaptive computing.

Requisites

Simple Requirements

Prerequisite: CSC 6220 or CSC6230 Machine Learning

CSC7560 - Adv Ntwrk/Nxt Gen Intrn Protoc

General

College/School
Engineering

Course Title
Adv Ntwrk/Nxt Gen Intrn Protoc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
7560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The proposed Advanced Networking and Next Generation Internet Protocols course will teach students about the Internet and the technologies and protocols that build it. This class will draw on the past to project on the future of the Internet. By studying the seminal works of the Internet pioneer, the students will understand the rationale behind the design of the Internet, how the massive success of the Internet has exposed its architectural shortcomings, and understand the future research directions that address these challenges. They will pick a real-world problem in consultation with the instructor and utilize cutting-edge networking to solve it.

Requisites

Simple Requirements

Prerequisite: None

CSC7570 - AI Assisted Cyber Security

General

College/School
Engineering

Course Title
AI Assisted Cyber Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSC

Course Number
7570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces students to the research challenges and opportunities at the intersection of cybersecurity and artificial intelligence (AI). It focuses on a range of topics and research in the areas of malware, access control, federated learning, and adversarial attacks. Students will learn and have some hands-on experience on cutting edge research in these topics, particularly in malware analysis, read paper and analyze them. The main objective is to let students read peer-reviewed papers to understand and practice state-of-the-art AI for cybersecurity solutions, work in groups to analysis and critique scholarly articles, and spark new research ideas for their research work.

Requisites

Simple Requirements

Prerequisites: MS or PhD Standing in Computer Science or related programs, understanding of cybersecurity basics, AI and ML concepts.

CSC7575 - Cyber-Physical System Security

General

College/School
Engineering

Course Title
Cyber-Physical System Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7575

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Timely topics related to security issues in modern cyber-physical systems such as smart grids, autonomous vehicles, e-health, etc. topics include system architectures, vulnerabilities, threats, attacks, and defense mechanisms.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC7720 - Distributed Operating Systems

General

College/School
Engineering

Course Title
Distributed Operating Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Computer operating systems that run on multiple, independent central processing units but appear to the user as an ordinary centralized operating system. Principles, design and implementation of distributed operating systems, including network technologies, synchronization, distributed resources management, distributed process management, security, and distributed file systems.

Requisites

Simple Requirements

Prerequisite: Graduate standing or consent of instructor.

CSC7730 - Autonomic Computing

General

College/School
Engineering

Course Title
Autonomic Computing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces principles, key concepts, and proposed methodologies underlying the design and engineering of autonomic computing and networking (AC) systems of autonomic computing systems. Investigates the origins, goals, and promises of autonomic computing. Includes complexity of autonomic computing, architecture, algorithms, enabling technology and development tools for autonomic computing.

Requisites

Simple Requirements

Prerequisites: CSC6780 Distributed Computing or CSC6730 Advanced Networking .

CSC7750 - High Performance Computing

General

College/School
Engineering

Course Title
High Performance Computing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces principles, key concepts, and proposed methodologies used in advanced high performance computing. The future of high performance computing is in exploiting the ever-increasing levels of parallelism. This course will investigate the origins, goals, and techniques of these distributed and parallel systems. The course content will include the architecture, algorithms, techniques, and enabling technology and development tools for high performance computing.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

CSC7970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
6

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

CSC7980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
This course provides for directed independent study under the direction of a faculty member in Computer Science. May be repeated for credit if course topic is different.

Requisites

Simple Requirements

Prerequisite: None

CSC7990 - Research and Dissertation

General

College/School
Engineering

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSC

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course entails advanced, original research conducted under faculty guidance, culminating in the writing and defense of a doctoral dissertation.

Requisites

CSCI5017 - Intro to Information Assurance

General

College/School
TN eCampus Degree

Course Title
Intro to Information Assurance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSCI

Course Number
5017

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

CSED6000 - Digital Literacy & Computing

General

College/School
Education and Human Sciences

Course Title
Digital Literacy & Computing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSED

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Gain foundational knowledge in digital literacy, computing systems, and instructional strategies for teaching computer science concepts.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

CSED6010 - Computational Thinking Concepts and Curriculum Design

General

College/School
Education and Human Sciences

Course Title
Comp Thnkg Concp/Curr Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSED

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces the foundational building blocks of programming, including primitive data types, functions, algorithms, flow charts, common searching, basic data structures, and control structures. Computational thinking concepts will be defined and examined within programming languages.

Requisites

No Requirements

CSED6020 - Programming Fundamentals for Educators

General

College/School
Education and Human Sciences

Course Title
Progrmg Fundamentals/Educators

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CSED

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Develop and analyze text-based programming skills with a focus on code structure, reusability, and educational applications.

Requisites

No Requirements

CSED6030 - Computer Science Instructional Methods

General

College/School
Education and Human Sciences

Course Title
Comp Sci Instr Methods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CSED

Course Number
6030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examine pedagogical approaches, learning theories, and assessment strategies for teaching computer science effectively.

Requisites

No Requirements

CTE5030 - Curr/Pgm Dvlpmt/Career Tech Ed

General

College/School
Education and Human Sciences

Course Title
Curr/Pgm Dvlpmt/Career Tech Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CTE

Course Number
5030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of the fundamental steps involved in the development of curriculum in occupational education. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CTE5080 - Career Tech Stu Org/Tch Sprvsn

General

College/School
Education and Human Sciences

Course Title
Career Tech Stu Org/Tch Sprvsn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CTE

Course Number
5080

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The methods of establishment, supervision, and evaluation of career technical youth organizations in industrial education. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CTE5090 - Career Tech Ed/Stu w/ Sp Needs

General

College/School
Education and Human Sciences

Course Title
Career Tech Ed/Stu w/ Sp Needs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CTE

Course Number
5090

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Overview of the nature of special needs students, technique of modification of career technical curriculum and development of appropriate teaching materials. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CTE5850 - Use of Tech in Career Tech Ed

General

College/School
Education and Human Sciences

Course Title
Use of Tech in Career Tech Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CTE

Course Number
5850

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Laboratory approach providing opportunities for experienced educational personnel to concentrate their study in depth. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CUED5120 - Materials/Methods: Speech and Theatre

General

College/School
Education and Human Sciences

Course Title
Mat & Meth-Speech & Thea

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
5120

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: CUED 6800. Principles, objectives, techniques, evaluation in secondary school teaching of speech and elementary and secondary school teaching of theatre. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

No Requirements

CUED5400 - Teaching Methods/Physical Science

General

College/School
Education and Human Sciences

Course Title
Teaching Methods/Phys Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course focuses on teaching methods associated with the physical sciences of physics and chemistry. Students will experience and learn the theories behind inquiry, modeling, and other appropriate classroom instructional methods for physics and chemistry topics. Methods and topics will cover grades K-12 with a strong emphasis on conceptual understanding and vertically-alligned standards-based instruction. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

CUED5750 - Service Learning: Informal STEM Education

General

College/School
Education and Human Sciences

Course Title
Serv Lrn Informal STEM Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
5750

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Course Description

This course provides students with the opportunity to plan, prepare, and present informal activities/lessons in science, technology, engineering, and mathematics to PreK-12th graders. Students in the 5000-level course will complete additional work. May be repeated for credit.

CUED5900 - Study Abroad

General

College/School
Education and Human Sciences

Course Title
Study Abroad

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
5900

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Course Description
This course provides students the opportunity to engage in a Faculty-led study abroad experience which may involve a service-learning component. All participants must comply with established policy, procedures, and guidelines outlined in the Faculty-led Program Abroad Handbook maintained by Tennessee Tech's Study Abroad Office. Students in the 5000 level course will complete additional work. May be repeated for credit.

CUED6010 - Curriculum Development & Evaluation

General

College/School
Education and Human Sciences

Course Title
Curr Development & Eval

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6010

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Current trends in curriculum development; defining objectives; planning for improvement; organization of instructional materials; curriculum evaluation.

CUED6100 - Instructional Strategies

General

College/School
Education and Human Sciences

Course Title
Instructional Strategies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Advanced educational methods for K-12, including an emphasis on current research and best practice in the field.

CUED6150 - Middle School Curriculum

General

College/School
Education and Human Sciences

Course Title
Middle School Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

An examination of the function, organization, curricular offerings, instructional strategies, and trends in middle schools.

Requisites

No Requirements

CUED6250 - School/Community Partnerships

General

College/School
Education and Human Sciences

Course Title
School/Community Partnerships

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Techniques and procedures for interpreting school programs and building relationships between the school and community, and the improvement of the instructional program through community resources and involvement.

CUED6300 - Quantitative Education Research

General

College/School
Education and Human Sciences

Course Title
Quantitative Edu Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Research design and quantitative methods of research in education.

CUED6305 - Quantitative Problems in Curriculum

General

College/School
EH

Course Title
Quantitative Prob/Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6305

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CUED 6300. Research of significant problems and issues in education.

Requisites

Simple Requirements

Prerequisite: CUED6300 Quantitative Edu Research

CUED6310 - Qualitative Research in Education

General

College/School
Education and Human Sciences

Course Title
Qualitative Research in Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of qualitative research applications and analysis of design and selected research techniques.

CUED6315 - Qualitative Problems in Curriculum

General

College/School
EH

Course Title
Qualitative Prob/Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6315

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CUED 6310. Research of significant problems and issues in education.

Requisites

Simple Requirements

Prerequisite: CUED6310 Qualitative Research in Edu

CUED6430 - Design Studies: Production of Instructional Materials

General

College/School
Education and Human Sciences

Course Title
Dsgn Stu: Prod of Inst Mtrls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Design, preparation, and production of instructional materials utilizing current and emerging technologies to create effective resources for diverse educational and professional learning/training environments.

Requisites

Simple Requirements

Untitled Requirement

Type
Prerequisite

CUED6440 - Emerging Technologies in Education

General

College/School
Education and Human Sciences

Course Title
Emerging Technologies/Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites: Consent of advisor and advanced graduate standing. Preferred content focus in educational technology.

CUED6450 - Immersive Technologies for Instructional Design

General

College/School
Education and Human Sciences

Course Title
Immersive Tech/Instr Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Explore and apply immersive technologies to design innovative learning experiences for both face-to-face and virtual environments.

Requisites

Simple Requirements

Prerequisite: None

CUED6460 - Constructive Strategies/ Classroom Instruction

General

College/School
Education and Human Sciences

Course Title
Cnstrctvst Strgies-Clsrm Inst

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites: Consent of advisor and advanced graduate standing. Preferred content focus in educational technology

CUED6750 - Service Learning: Informal STEM Education

General

College/School
Education and Human Sciences

Course Title
Srv Lrning Informal STEM Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6750

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description

This course provides students with the opportunity to plan, prepare, and present informal activities/lessons in science, technology, engineering, and mathematics to PreK-12th graders. Students in the 7000-level course will complete additional work. May be repeated for credit.

CUED6780 - Job-Embedded Grad Seminar

General

College/School
Education and Human Sciences

Course Title
Job-Embedded Grad Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6780

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Develop an understanding of state standards and curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. State specific licensure requirements for Job-Embedded educators will be addressed.

CUED6800 - Field Experience

General

College/School
EH

Course Title
Field Experience

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6800

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Practical field experience in student's major area of emphasis. A minimum grade of B is required to meet degree requirements for licensure candidates. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or better
A minimum grade of B is required to meet degree requirements for licensure candidates.

CUED6870 - Job-Embedded Grad Seminar

General

College/School
Education and Human Sciences

Course Title
Job-Embedded Grad Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6870

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Develop an understanding of state standards and curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. State specific licensure requirements for Job-Embedded educators will be addressed.

CUED6872 - Professional Seminar

General

College/School
Education and Human Sciences

Course Title
Professional Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6872

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Seminar for licensure candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners. A minimum grade of Bis required to meet requirements for licensure candidates.

CUED6875 - Job-Embedded edTPA

General

College/School
Education and Human Sciences

Course Title
Job-Embedded edTPA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6875

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Supporting professional development in areas of planning, instruction, assessment, and reflection. A minimum grade of B is required to meet requirements for licensure candidates.

CUED6880 - Student Teaching

General

College/School
EH

Course Title
Student Teaching

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6880

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Prerequisite: CUED 6800 and Full admission to the Teacher Education Program. A semester-long performance based clinical experience in authentic settings involving planning appropriate instruction based on student's needs, creating a positive learning environment, communicating and collaborating with colleagues and others, effectively assessing student learning and reflecting on practice. THIS COURSE REQUIRES A GRADE OF "B" OR BETTER.

Requisites

Simple Requirements

Prerequisite: CUED6800 Field Experience and Full admission to the Teacher Education Program.

CUED6920 - Topics

General

College/School
Education and Human Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
6920

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
Laboratory approach providing opportunities for experienced educational personnel to study in-depth educational problems.

CUED6990 - Research & Thesis

General

College/School
Education and Human Sciences

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
6990

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
9

CUED7005 - Autoethnography

General

College/School
Education and Human Sciences

Course Title
Autoethnography

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7005

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Overview of autoethnographic research, including connections between culture, self, and others; learning individualistic characteristics of autoethnography; and collecting, managing, analyzing, and interpreting data to produce a sound qualitative study.

Requisites

No Requirements

CUED7010 - Learning Theories

General

College/School
Education and Human Sciences

Course Title
Learning Theories

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced study of major learning theories with emphasis on making connections to recent instructional trends, teaching innovations and student learning.

CUED7030 - Rural Schools & Communities

General

College/School
Education and Human Sciences

Course Title
Rural Schools & Communities

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Graduate Standing. An in-depth study of the historical, cultural, and economic characteristics of rural places and the role of schools and agencies in shaping the destiny of those places and their citizens.

CUED7150 - Topics

General

College/School
Education and Human Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7150

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description

This course will provide up-to-date content in emerging educational issues. The specific topic will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face and/or online attendance. Course objective and grading guidelines will be established by the faculty at the time each course is offered.

CUED7200 - Food System Programs at the FEW Nexus

General

College/School
Education and Human Sciences

Course Title
Food System Programs/FEW Nexus

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Provides a comprehensive understanding of Food Systems challenges at the Food-Energy-Water (FEW) Nexus in local communities through an educational research and programmatic lens. Leveraging educational research methods like participatory research, action research, and case study research with the Renaissance Foundry Model (RFM), students will develop innovative solutions to food-related challenges presented in local communities.

CUED7300 - AI for Educators

General

College/School
Education and Human Sciences

Course Title
AI for Educators

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explore the use of artificial intelligence (AI) in the field of Education. Gain an understanding of how AI works, explore using AI to create and curate content, and address ethical issues along the way. Be empowered to integrate AI to enhance teaching, learning, collaborating, and creating.

Requisites

No Requirements

CUED7430 - Special Application/Technology to Education

General

College/School
EH

Course Title
Spec App/Tech to Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CUED 6430. Application of current media technologies to maximize student learning with instructional design strategies appropriate for each technology.

Requisites

Simple Requirements

Prerequisite: CUED6430 Dsgn Stu: Prod of Inst Mtrls

CUED7510 - Instructional Design Foundations

General

College/School
Education and Human Sciences

Course Title
Instrctl Design Foundations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
7510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Foundations of Instructional Design (ID). Prepares students to apply principles for creating effective, goal-aligned learning and performance solutions across K–12, higher education, and workforce training contexts.

Requisites

Simple Requirements

Prerequisites: None

CUED7520 - Teaching and Learning Online

General

College/School
Education and Human Sciences

Course Title
Teaching and Learning Online

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
7520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Consent of advisor and advanced graduate standing. Preferred content focus in educational technology.

CUED7530 - Design Integrated Technical Environments

General

College/School
Education and Human Sciences

Course Title
Design Intgrtd Tech Environs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
CUED

Course Number
7530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Consent of advisor and advanced graduate standing. Preferred content focus in educational technology.

CUED7540 - Applied Instructional Design/ Learning Analytics

General

College/School
Education and Human Sciences

Course Title
Appl Instr Dsgn/Lrn Analytics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Covers designing engaging learning experiences based on educational theory and utilizing authoring tools. Employs learning analytics to evaluate and improve instructional modules, focusing on impact on organizational performance.

Requisites

Simple Requirements

Prerequisite: None

CUED7750 - Service Learning: Informal STEM Education

General

College/School
Education and Human Sciences

Course Title
Srv Lrning Informal STEM Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7750

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description

This course provides students with the opportunity to plan, prepare, and present informal activities/lessons in science, technology, engineering, and mathematics to PreK-12th graders. Students in the 7000-level course will complete additional work. May be repeated for credit.

CUED7800 - Lab & Field Experience in Education

General

College/School
Education and Human Sciences

Course Title
Lab & Field Exper in Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Reading Specialists Concentration only. Consent of advisor and advanced graduate standing. Supervised practicums, observation, simulation, internships, and externships in education.

CUED7801 - Lab/Field Experience in Education/Technology

General

College/School
Education and Human Sciences

Course Title
Lab/Field Exp in Edu/Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7801

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description
Prerequisite: Consent of advisor and advanced graduate standing. Students will participate in a variety of field experience activities related to educational technology integration. Topics include classroom technology integration, emerging technologies, technology professional development, technology leadership learning opportunities.

CUED7802 - Lab/Field Experience in Education Grant Writing

General

College/School
Education and Human Sciences

Course Title
Lab/Fld Exp in Edu/Grant Writ

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7802

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description

Prerequisite: Consent of advisor and advanced graduate standing. Supervised practicums, observation, simulation, internships, and externships in education. Content focus on grant writing.

CUED7803 - Lab/Field Experience in Education/Autoethnography

General

College/School
Education and Human Sciences

Course Title
Lab/Fld Exp in Edu/Autoethnogr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7803

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description

Prerequisite: Consent of advisor and advanced graduate standing. Supervised practicums, observation, simulation, internships, and externships in education. Content focus on autoethnography.

CUED7910 - Advanced Research Project in Education

General

College/School
Education and Human Sciences

Course Title
Adv Research Project in ED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
CUED

Course Number
7910

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Advanced graduate standing and consent of advisor. Study on an individual basis in the area of education being emphasized.

DS5050 - Quantitative Techniques-Bus

General

College/School
Business

Course Title
Quantitative Techniques-Bus

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
5050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Classical and modern optimization techniques and concepts. Basic review and introduction to business application of probability, statistics, and management science methods.

Requisites

Simple Requirements

Prerequisites: None

DS5125 - Comp Forensics/Investigations

General

College/School
Business

Course Title
Comp Forensics/Investigations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
DS

Course Number
5125

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Investigation, discovery, and analysis of digital computer evidence. Student work groups use computer hardware and forensic software to perform computer forensic investigations and solve sample cases. Students are introduced to and work with numerous computer forensic tools. Enrollment in junior- or senior-level DS courses requires junior standing. All business majors must have completed the Basic Business Program. Enrollment in DS 4125 course requires junior standing. Students may not receive credit for both DS 4125 and DS 5125.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

DS5330 - Mgmt Info System Analysis/Dsgn

General

College/School
Business

Course Title
Mgmt Info System Analysis/Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
5330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An applications oriented study of the business systems development life cycle; current systems analysis and design methods are emphasized. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: DS3850 Business Applications Develop and DS3860 Business Database Mgmt.

Corequisite: DS3865 Business Database Mgmt 2 and DS 3870

DS5630 - Adv Quantitative Analysis

General

College/School
Business

Course Title
Adv Quantitative Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced applications of quantitative methods including forecasting and management science concepts. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: DS3620 Bus Anyltcs:Data Drv Dec Makng.

DS5900 - Spec Top: Decision Science

General

College/School
Business

Course Title
Spec Top: Decision Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
5900

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description
Current Topics in Decision Sciences. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

DS6220 - Management of Info Technology

General

College/School
Business

Course Title
Management of Info Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
DS

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Concepts of current components of information technology and their management as it relates to the support of the strategic business plan

Requisites

Simple Requirements

Prerequisites: None

DS6530 - Advanced Data Analytics

General

College/School
Business

Course Title
Advanced Data Analytics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

An introduction to expert systems, decision support systems, and executive information systems as they are employed in business organizations.

Requisites

Simple Requirements

Prerequisites: None

DS6540 - Network Security

General

College/School
Business

Course Title
Network Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
DS

Course Number
6540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces students to the concepts of telecommunications, wide and local area networks, and other state-of-the-art communications technologies.

Requisites

Simple Requirements

Prerequisites: None

DS6550 - Database Management

General

College/School
Business

Course Title
Database Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces students to the concepts, terminology, tools, and techniques comprising the general area of data resources management.

DS6570 - Cyber Security Mgmt.

General

College/School
Business

Course Title
Cyber Security Mgmt.

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
DS

Course Number
6570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The objective of this course is to provide students with a solid foundation and best practices for policy, governance, risk management and compliance with respect to an organization’s information technology and resources.

Requisites

Simple Requirements

Prerequisites: None

DS6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
DS

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

Simple Requirements

Prerequisites: None

ECE5010 - Analog Electronic Circuits

General

College/School
Engineering

Course Title
Analog Electronic Circuits

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Frequency response, multi-stage amplifiers, feedback, power output stages, circuit design.

Requisites

Simple Requirements

Prerequisite: C or better in either ECE3050 Circuits and Electronics II or ECE3300 Electronics I and C or better in either ECE3010 Signals and Systems or ECE3330 Signals and Systems.

ECE5020 - Digital Signal Processing

General

College/School
Engineering

Course Title
Digital Signal Processing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and practice of discrete-time signals and systems, A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

Requisites

Simple Requirements

Prerequisite: C or better in CSC1310 Data Structures and Algorithms, C or better in either ECE2110 Intro to Digital Systems or ECE2140 Intro to Digital Systems, C or better in either ECE3020 Discrete-Time Signals/Systems or ECE3330 Signals and Systems, and C or better in ECE3130 Microcomputer Systems.

ECE5120 - Fundamentals/Comp Design

General

College/School
Engineering

Course Title
Fundamentals/Comp Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Continuation of digital system design concepts and applications with emphasis on computer hardware design: CPU sequencers, arithmetic/logic units, fixed and floating point arithmetic implementations, and computer peripheral interfacing, utilizing programmable logic. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE3130 Microcomputer Systems and C or better in either ECE3140 Digital System Design or ECE4110 Digital System Design.

ECE5130 - Intro to Digital VLSI

General

College/School
Engineering

Course Title
Intro to Digital VLSI

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis, design and layout of complex digital integrated circuits in MOS technology. The course emphasizes design through projects and requires extensive use of simulation and layout VLSI CAD tools. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in either ECE2110 Intro to Digital Systems or ECE 2140; and C or better in either ECE3050 Circuits and Electronics II or ECE3300 Electronics I.

ECE5140 - Embedded System Design

General

College/School
Engineering

Course Title
Embedded System Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5140

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in ECE 3130. Basic hardware and software concepts in the analysis and design of embedded systems, peripheral interfaces and performance analysis with hands-on design project.

Requisites

ECE5150 - Cyber-Physical Hdwr Security

General

College/School
Engineering

Course Title
Cyber-Physical Hdwr Security

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5150

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Topics in Cyber-Physical System (CPS) hardware security, including Internet of Things (IoT), Smart Grid, Vehicular ad-hoc Network (VANet), Autonomous Vehicles, Artificial Intelligence of Things (AIoT).

Requisites

Simple Requirements

Prerequisite: C or better in CSC1310 Data Structures and Algorithms; and C or better in ECE3150 Intro to Hardware Security.

ECE5210 - Control System Design I

General

College/School
Engineering

Course Title
Control System Design I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Design of compensators using frequency domain techniques; design projects with hardware implementation. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Grade of C or better in ECE3210 Control System Analysis and grade of C or better in ECE3260 Control System Lab.

ECE5370 - Mechatronics/Intel Machine Eng

General

College/School
Engineering

Course Title
Mechatronics/Intel Machine Eng

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5370

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Mechatronics; number systems; microcontroller technology and architecture of 8-bit microcontrollers (e.g. Motorola MC68HC 11O); assembly language programming; AID and DIA conversion; parallel I/0; programmable timer operation; interfacing sensors and actuators; applications; and team project on design and implementation of a mechatronic system. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE 3130.

Cross-listing: ME 5370

ECE5510 - Electromagnetic Fields II

General

College/School
Engineering

Course Title
Electromagnetic Fields II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Polarization, Poynting's vector, transmission lines, waveguides, and radiation. Students enrolled in the 5000-level course will be required to complete additional work as required in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE3510 Electromagnetic Fields I.

ECE5520 - Optoelectronic Engineering

General

College/School
Engineering

Course Title
Optoelectronic Engineering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Device theory for optical communication and instrumentation systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE3540 Physical Electronics.

ECE5610 - Power System Analysis

General

College/School
Engineering

Course Title
Power System Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Power system components modeling in steady state, per unit calculations, transmission line steady state operation, power flow analysis, applications of commercial software. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE3610 Intro to Power Systems.

ECE5620 - Power Sys Oper & Control

General

College/School
Engineering

Course Title
Power Sys Oper & Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Symmetrical components, fault analysis, system protection, transient stability, power system controls including: automatic generation control, voltage regulation, and economic dispatch. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE 4610 (ECE5610 Power System Analysis).

ECE5630 - Power Electronics

General

College/School
Engineering

Course Title
Power Electronics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Uncontrolled and controlled rectifiers, voltage controllers, chopper, de motor control, pulse-width modulation inverters, induction motor control, and power supplies. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in either ECE3050 Circuits and Electronics II or ECE3300 Electronics I; and C or better in ECE3610 Intro to Power Systems.

ECE5710 - Principles/Telecommunications

General

College/School
Engineering

Course Title
Principles/Telecommunications

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: C or better in ECE 3710 and C or better in MATH 3470. Performance of analog and digital communication systems in the presence of noise. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

ECE5720 - Telecom Systems Design

General

College/School
Engineering

Course Title
Telecom Systems Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
5720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Link budget, synchronization, frequency synthesis, receiver architecture, noise and distortion, error correction codes, spread-spectrum systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in ECE3710 Intro/Telecommunications and C or better in MATH3470 Intro/Prob & Stats.

ECE5830 - Appl/Machine Learning in ECE

General

College/School
Engineering

Course Title
Appl/Machine Learning in ECE

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
5830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamentals of machine learning with emphasis on practical applications to electrical and computer engineering problems. Supervised learning (linear and logistic regression, decision trees, and neural networks), unsupervised learning.

Requisites

Simple Requirements

Prerequisite: C or better in either CSC1300 Intro/Prob Solving-Comp Prog or ENGR1120 Programming for Engineers; C or better in MATH2010 Introduction to Linear Algebra; and C or better in MATH3470 Intro/Prob & Stats.

ECE5990 - Special Problems

General

College/School
Engineering

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
5990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Current topics in electrical engineering in the form of a reading course or an experimental lecture course. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ECE6040 - Signal Analysis

General

College/School
Engineering

Course Title
Signal Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of continuous and discrete signals; orthogonal expansion of signals; sampling and reconstruction; theory and application of Fourier and z-transforms, FFT algorithms and spectral analysis.

Requisites

Simple Requirements

Prerequisite: Graduate standing.

ECE6110 - Microprocessors Systems

General

College/School
Engineering

Course Title
Microprocessors Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Design of microprocessor-based controllers from sensor to output, including hardware and software for control, data acquisition, computation, and I/O.

Requisites

Simple Requirements

Prerequisite: ECE3120 Microcomputer Systems and ECE 4110, or equivalent.

ECE6130 - Computer Architecture

General

College/School
Engineering

Course Title
Computer Architecture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis and design of computing systems. Performance issues, cache and virtual memory structures, and pipelined CPUs.

Requisites

Simple Requirements

Prerequisite: ECE 4120 or equivalent.

ECE6150 - Digital VLSI Design

General

College/School
Engineering

Course Title
Digital VLSI Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Hierarchical design of NMOS and MOS ASICs, MOS technology and fabrication. Standard cell and full-custom chip layout. FPGAs, FSMs, and iterative networks. Use of CAD tools.

Requisites

Simple Requirements

Prerequisite: ECE 4130 or equivalent.

ECE6170 - High Perf Embedded Sys Design

General

College/School
Engineering

Course Title
High Perf Embedded Sys Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Hardware and software concepts in the design and analysis of embedded systems. Memory types and peripheral interfaces used in embedded systems. Performance analysis of embedded systems designs.

Requisites

Simple Requirements

Prerequisites: ECE 4140.

ECE6200 - Linear Systems Analysis

General

College/School
Engineering

Course Title
Linear Systems Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
State space analysis of multiple-input/multiple-output continuous and discrete-time systems; linear spaces; time-varying systems, controllability, observability, and stability.

Requisites

Simple Requirements

Prerequisite: ECE 3210 or ME4810 Automatic Control.

ECE6230 - Linear Multivariable Sys Dsgn

General

College/School
Engineering

Course Title
Linear Multivariable Sys Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Optimal control; robust stability; loop shaping design using singular values; loop transfer recovery; survey of other multivariable system designs.

Requisites

Simple Requirements

Prerequisites: ECE6200 Linear Systems Analysis, ECE6250 Random Signals & Systems.

ECE6250 - Random Signals & Systems

General

College/School
Engineering

Course Title
Random Signals & Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability models used in engineering; transformations of random variables; stochastic processes for engineering applications; linear least-square estimation; spectral analysis; Markoff systems.

Requisites

Simple Requirements

Prerequisite: ECE3910 Prob/Random Variables in ECE or equivalent.

ECE6280 - Nonlinear Auto Control

General

College/School
Engineering

Course Title
Nonlinear Auto Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6280

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Singular points; limit cycles; perturbation techniques; describing functions; stability.

Requisites

Simple Requirements

Prerequisite: ECE6200 Linear Systems Analysis

ECE6510 - Electromag Field Theory I

General

College/School
Engineering

Course Title
Electromag Field Theory I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Boundary value problems in electrostatics and magnetostatics; electric and magnetic multipole interactions; Maxwell's stress tensor; Maxwell's equations; EM wave propagation in vacuum and dielectric media.

Requisites

Simple Requirements

Prerequisite: Graduate standing in EE.

ECE6530 - Quantum Engineering Theory I

General

College/School
Engineering

Course Title
Quantum Engineering Theory I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to quantum principles, Schrodinger theory, Dirac theory, time-independent perturbation theory, variation method of approximation.

Requisites

Simple Requirements

Prerequisite: Graduate standing in EE.

ECE6580 - Instr/Transducer Technology

General

College/School
Engineering

Course Title
Instr/Transducer Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ECE 4230 or equivalent. A study of applications of instrumentation systems, transducer and sensor devices, signal conditioning and recording considerations with emphasis on parameters as temperature, velocity, acceleration, pressure, and others. Calibration techniques, error consideration, and new and current instrument developments will be presented.

Requisites

Simple Requirements

Prerequisite: ECE4230 Comp-Based Msrmt/Control Sys or equivalent.

ECE6600 - Computer Meth/Pwr Sys Analysis

General

College/School
Engineering

Course Title
Computer Meth/Pwr Sys Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Power system matrices; fault and contingency analyses, power flow and optimal dispatch methods, state estimation and stochastic methods, automatic generation control and transient stability analyses.

Requisites

Simple Requirements

Prerequisite: ECE 4620.

ECE6620 - Adv Electric Machinery

General

College/School
Engineering

Course Title
Adv Electric Machinery

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic principles of energy conversion; reference frame theory; induction machines; synchronous machines; permanent magnet machines and stability analysis.

Requisites

Simple Requirements

Prerequisite: ECE 3610.

ECE6640 - Rnwbl Energy/Distr Generation

General

College/School
Engineering

Course Title
Rnwbl Energy/Distr Generation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of renewable energy and distributed generation; operation of distributed energy resources (DER) - photovoltaics, wind, fuel cells, etc; hybrid power generational technology; distributed generation control; economics of DER.

Requisites

Simple Requirements

Prerequisite: ECE 4610.

ECE6650 - Design-Control/Power El Sys

General

College/School
Engineering

Course Title
Design-Control/Power El Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Phase controlled converter, voltage and current inverters; inverter design and analysis, electric motor control.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ECE6670 - Pwr Flow Cntrl-Mdrn Pwr Sys

General

College/School
Engineering

Course Title
Pwr Flow Cntrl-Mdrn Pwr Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6670

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Flexible AC transmission system, static VAR compensator, unified power flow controller, and enhancement of dynamic stability.

Requisites

Simple Requirements

Prerequisite: ECE 4610 or equivalent.

ECE6710 - Communications Sys Theory

General

College/School
Engineering

Course Title
Communications Sys Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to systems, theories and inherent problems of modern digital communication systems.

Requisites

Simple Requirements

Prerequisite: ECE 4710 or consent of instructor.

ECE6730 - Info Theory & Reliable Comm

General

College/School
Engineering

Course Title
Info Theory & Reliable Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A measure of information, theory of source and channel coding, rate distortion, and channel capacity.

Requisites

Simple Requirements

Prerequisites: ECE6250 Random Signals & Systems, ECE 6710.

ECE6750 - Wireless Communication Sys

General

College/School
Engineering

Course Title
Wireless Communication Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Modern wireless systems, including cellular design, propagation modeling, multiple access, and signal process techniques.

Requisites

Simple Requirements

Prerequisite: ECE 4710 or equivalent.

ECE6900 - Special Problems in EE

General

College/School
Engineering

Course Title
Special Problems in EE

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6900

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Investigation of a topic pertaining to the area of electrical engineering which is compatible with the student's prerequisites, interest, and ability.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ECE6910 - Intro to Graduate Research

General

College/School
Engineering

Course Title
Intro to Graduate Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Research tools and written and oral presentations in electrical and computer engineering area; graduate thesis; ethics in research.

Requisites

Simple Requirements

Prerequisite: Graduate student standing.

ECE6970 - Non-Thesis Design Project

General

College/School
Engineering

Course Title
Non-Thesis Design Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An independent design project that may be implemented either in software or/ and hardware. A formal written project report and oral presentation will be given to the student's advisory committee.

Requisites

Simple Requirements

Prerequisite: Consent of instructor, enrolled in Non-thesis MS option.

ECE6980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
This course provides graduate students the opportunity to pursue a directed independent study or research on a specialized topic under the guidance of a faculty member, culminating in a written report or project.

Requisites

ECE6990 - Research & Thesis

General

College/School
Engineering

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course involves independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis.

Requisites

ECE7110 - Advanced Digital Design

General

College/School
Engineering

Course Title
Advanced Digital Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECE

Course Number
7110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced design techniques for digital systems including computer-aided design and VLSI.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

ECE7170 - Adv Embedded Systems

General

College/School
Engineering

Course Title
Adv Embedded Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced topics in the design of FPGA-based embedded systems including data stream management, embedded systems for multi-media, real-time embedded systems, and embedded system security.

Requisites

Simple Requirements

Prerequisite: ECE 6170.

ECE7250 - Advanced Systems Theory I

General

College/School
Engineering

Course Title
Advanced Systems Theory I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Review of mathematical and dynamic programming; decomposition and coordination; hierarchical control of large scale systems; decentralized control; decentralized estimation.

Requisites

Simple Requirements

Prerequisites: ECE6230 Linear Multivariable Sys Dsgn, ECE6260 Estimation Theory/System ID.

ECE7530 - Quantum Electronics I

General

College/School
Engineering

Course Title
Quantum Electronics I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Review of quantum principles; interaction of radiation with atomic systems; laser theory.

Requisites

Simple Requirements

Prerequisite: ECE6540 Quantum Engr Theory II

ECE7600 - Power System Control

General

College/School
Engineering

Course Title
Power System Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Machine voltage control; system voltage control; automatic generation control and inter-area power transfer; stability analysis; analysis and design of power system stabilizers and energy control centers.

Requisites

Simple Requirements

Prerequisite: ECE6600 Computer Meth/Pwr Sys Analysis or equivalent.

ECE7620 - Adjustable Speed Drives

General

College/School
Engineering

Course Title
Adjustable Speed Drives

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of adjustable speed motor drives; direct current motor drives; induction motor drives, field orientation control; adjustable speed synchronous motor drives.

Requisites

Simple Requirements

Prerequisites: ECE 6620, ECE6650 Design-Control/Power El Sys

ECE7640 - Distributed Energy Systems

General

College/School
Engineering

Course Title
Distributed Energy Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Instantaneous power theory, active and passive filters, distributed energy resources, modeling and control, interfaces, protection and economics of distributed generation systems.

Requisites

Simple Requirements

Prerequisite: ECE 6640.

ECE7650 - Design and Finite Element Analysis of Electric Machines

General

College/School
Engineering

Course Title
Dsgn/Fnte Elmnt Anlys/Elc Mch

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Dynamic electromagnetic circuit analysis, calculation of inductances, methods for designing and optimization of electric machines, finite element analysis methods.

Requisites

Simple Requirements

Prerequisite: ECE 6620 .

ECE7750 - Advanced Wireless Systems

General

College/School
Engineering

Course Title
Advanced Wireless Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced modulations for fading channels, multiple-input multiple out (MIMO), space-time coding, ultra-wideband communications, cognitive radio, and wireless sensor networking.

Requisites

Simple Requirements

Prerequisite: ECE6750 or equivalent.

ECE7970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
This course explores emerging or specialized topics in the field not covered in the regular curriculum, with content varying by semester and instructor.

Requisites

ECE7980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
This course provides graduate students the opportunity to pursue a directed independent study or research on a specialized topic under the guidance of a faculty member, culminating in a written report or project.

Requisites

ECE7990 - Research & Dissertation

General

College/School
Engineering

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECE

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course entails advanced, original research conducted under faculty guidance, culminating in the writing and defense of a doctoral dissertation.

Requisites

ECED5230 - Early Intervention I

General

College/School
Education and Human Sciences

Course Title
Early Intervention I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ECSP 2400. Methods of service delivery for infants and toddlers with developmental delays and their families. Effective consultation, trans-disciplinary collaboration, service coordination, family centeredness, and culturally responsive practices. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

Requisites

Simple Requirements

Prerequisite: ECSP 2400

ECED5240 - Early Intervention II

General

College/School
EH

Course Title
Early Intervention II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
5240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ECED 4230(5230). Co-requisite: ECED 4221. Best practices in early intervention for a variety of special needs. Methods and curriculum development to enable effective reciprocal relationships with families. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure and practitioner candidates.

Requisites

No Requirements

ECED5290 - Community Connections

General

College/School
Education and Human Sciences

Course Title
Community Connections

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
5290

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CFS 2400. Survey of community resources for families and young children, with an emphasis on federal, state, and local programs. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ECSP 2400

ECED6200 - The Young Child

General

College/School
Education and Human Sciences

Course Title
The Young Child

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Patterns of growth and development as related to the school curricula.

ECED6300 - Math/Sci/Soc Stu/Tech-Yng Chld

General

College/School
Education and Human Sciences

Course Title
Math/Sci/Soc Stu/Tech-Yng Chld

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of methods and techniques for teaching math, science, social studies, and technology to children Pre K-3. Explores the integration of curriculum with special emphasis on inquiry methods for enhancing diverse learners' critical thinking abilities and includes practicum experience.

ECED7210 - Early Childhood Curr

General

College/School
Education and Human Sciences

Course Title
Early Childhood Curr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Major trends, programs, research, and innovations in Early Childhood Education with emphasis on curriculum development.

ECED7220 - Early Chld Instr/Materials

General

College/School
Education and Human Sciences

Course Title
Early Chld Instr/Materials

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECED

Course Number
7220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Planning objectives, activities, and materials for children, teaching techniques, and evaluation of curricula.

ECON5030 - Fundamentals of Economics

General

College/School
Business

Course Title
Fundamentals of Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Production and distribution of wealth and income; basic principles of the American capitalistic economy.

Requisites

Simple Requirements

Prerequisites: None

ECON5120 - Natural Resource Economics

General

College/School
Business

Course Title
Natural Resource Economics

Academic Level (Course Level)
Graduate

Course Subject Code
ECON

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Static and dynamic models of renewable and nonrenewable resource allocation. Application of principles of economics will identify the causes, consequences, and ways of dealing with natural resource problems, including problems associated with fisheries, forests, water problems, and land.

Requisites

Simple Requirements

Prerequisite: AGBE2100 or ECON2010 or consent of instructor.

ECON5200 - Environmental Economics

General

College/School
Business

Course Title
Environmental Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECON

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A detailed study of the economic foundations of Environmental Policy and common tolls used by environmental economists to measure and analyze benefits and costs of environmental regulation and consider the characteristics of efficient regulation.

Requisites

Simple Requirements

Prerequisite: AGBE2100 or ECON2010.

ECON5310 - Labor Economics

General

College/School
Business

Course Title
Labor Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Current Topics in Decision Sciences. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor. ECON 2010, ECON 2020, and one of the following:ECON3320 Money and Banking, ECON 3810, or ECON 3820.

ECON5510 - International Trade/Finance

General

College/School
Business

Course Title
International Trade/Finance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
International trade, monetary exchange, balance of payments, and foreign investments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ECON 2010 andECON 2020.

ECON5520 - Comparative Econ Sys

General

College/School
Business

Course Title
Comparative Econ Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of essential economic features of the economic systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ECON 2020.

ECON5530 - History of Economic Thought

General

College/School
Business

Course Title
History of Economic Thought

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of economic doctrines and schools and economic thought from the mercantilist period to the present.

Requisites

Simple Requirements

Prerequisite: ECON 2020.

ECON5600 - Econ Growth & Development

General

College/School
Business

Course Title
Econ Growth & Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A critical survey of growth and strategies of economic development, including regional growth and development; historical evidence of development. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ECON 2020.

ECON5640 - Econometrics

General

College/School
Business

Course Title
Econometrics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An advanced treatment of statistical models applied to economics, including the general linear model, heteroscedasticity, autocorrelation, multi-collinearity, simultaneous equations, and other violations of OLS assumptions. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ECON 3630, 3810, 3820, or consent of instructor.

ECON 2010, ECON 2020, ECON 3610, and one of the following: ECON3320 Money and Banking, ECON 3810, or ECON 3820.

ECON5900 - Contemporary Econ Workshop

General

College/School
Business

Course Title
Contemporary Econ Workshop

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
5900

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
Thorough and intensive training of public school teachers in fundamental economic principles and current issues. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ECON 3810 and ECON 3820 or consent of instructor.

ECON5990 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECON

Course Number
5990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Course Description
Directed study and research on a selected topic in economics. Available to economics majors on an individual basis with consent of departmental chairperson. Course may be taken more than once as topics change.

Requisites

ECON6000 - Managerial Economics

General

College/School
Business

Course Title
Managerial Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECON

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The study of fundamental principles of microeconomics most relevant to managers. Topics include marginal analysis, market equilibrium, pricing, market structures, incentive structures, and strategic interactions.

Requisites

Simple Requirements

Prerequisites: None

ECON6050 - Analytical Decision Making

General

College/School
Business

Course Title
Analytical Decision Making

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECON

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analytical decision making for business operations, including statistics, quantitative methods, and other optimization and simulation models.

Requisites

Simple Requirements

Prerequisites: None

ECON6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ECON

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

Simple Requirements

Prerequisites: None

ECSP5300 - Assessment of Young Children

General

College/School
Education and Human Sciences

Course Title
Assessment of Young Children

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECSP

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ECSP 2400. Theories, principles, and practices associated with child find, assessment, and evaluation of young children, their families, and their environment.

Requisites

Simple Requirements

Full admission to the Teacher Education Program; ECSP 2400.

ECSP6100 - Fndations/Early Chldhd Edu

General

College/School
Education and Human Sciences

Course Title
Fndations/Early Chldhd Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECSP

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Examination of major concepts guiding practice in the field of early childhood education. Discussion of various historical and contemporary models and delivery systems for grades Pre K-4 in diverse and inclusive settings and includes practicum experiences. A minimum grade of B is required to meet licensure requirements for licensure candidates.

ECSP6250 - Social/Emotional Tchng Strateg

General

College/School
Education and Human Sciences

Course Title
Social/Emotional Tchng Strateg

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ECSP

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Teaches skills to build rapport with children and families; create supportive learning environments; apply positive social-emotional teaching strategies; define specific discipline and guidance strategies; assess challenging behaviors; describe specific interventions related to challenging behaviors; and develop individualized, behavior guidance plans.

EDAD6050 - Educational Law

General

College/School
TN eCampus Degree

Course Title
Educational Law

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDAD

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

EDCI6300 - Multicultural Education

General

College/School
TN eCampus Degree

Course Title
Multicultural Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDCI

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

EDPY6370 - Family Systems

General

College/School
Education and Human Sciences

Course Title
Family Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDPY

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to family systems and techniqures of family counseling.

Requisites

Simple Requirements

Prerequisites: None

EDU7000 - Trans-Concentration Seminar

General

College/School
Education and Human Sciences

Course Title
Trans-Concentration Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7000

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Prerequisite: Admission to Ph.D. program. An introduction to the Ph.D. in Exceptional Learning familiarizing students with the procedures, requirements, and expectations of the program.

EDU7010 - Theoretical Foundtns/Research

General

College/School
Education and Human Sciences

Course Title
Theoretical Foundtns/Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. The first of a three-course qualitative research sequence focusing on research theoretical and methodological foundations and qualitative research design.

EDU7020 - At-Risk Population: Research, Service, and Delivery

General

College/School
Education and Human Sciences

Course Title
At-Risk Population:Rsrch, Serv

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. A survey of populations experiencing academic, social, or economic risk factors, their characteristics, and the research base for designing and implementing evidence-based prevention and intervention strategies.

Requisites

Simple Requirements

Prerequisite: Admission to Doctoral Program.

EDU7040 - Program Planning/Evaluation

General

College/School
Education and Human Sciences

Course Title
Program Planning/Evaluation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Theoretical perspectives, models, and effective practices in the development, planning, and evaluation of programs and services in a variety of educational settings.

EDU7060 - Issues in Education

General

College/School
Education and Human Sciences

Course Title
Issues in Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. An examination and analysis of contemporary trends and issues in education, including leadership, legal, and ethical issues.

EDU7300 - Research Design

General

College/School
Education and Human Sciences

Course Title
Research Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Overview of planning, designing, and conducting experimental and non-experimental research in order to maximize research validity.

Requisites

Simple Requirements

Prerequisite: EDU7430 and Admission to Doctoral Program.

EDU7320 - Rsch Meth/Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Rsch Meth/Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EDU 7300 and Admission to Doctoral Program. An in-depth analysis of measurements, data, interpretation, and experimental design in behavior analysis focusing on single case methodology.

Requisites

Simple Requirements

Prerequisite: EDU 7300 and Admission to Doctoral Program.

EDU7330 - Qualitative Inquiry/Research

General

College/School
Education and Human Sciences

Course Title
Qualitative Inquiry/Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: EDU 7010 and Admission to Doctoral Program. The second qualitative research course focusing on implementation of a previously designed qualitative study, including data collection and reflexivity in research.

Requisites

Simple Requirements

Prerequisite: EDU 7010 and Admission to Doctoral Program.

EDU7340 - Data Analysis/Reprsnt/Qual Inq

General

College/School
Education and Human Sciences

Course Title
Data Analysis/Reprsnt/Qual Inq

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program and EDU 7330. The culminating qualitative research course focusing on theoretical and practical dimensions and applications of qualitative data analysis and representation.

Requisites

Simple Requirements

Prerequisite: Admission to Doctoral Program and EDU 7330.

EDU7350 - Advanced Regression Analysis

General

College/School
Education and Human Sciences

Course Title
Advanced Regression Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program; EDU 7420 and EDU 7430. Advanced applications of regression analysis techniques.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; EDU 7420 and EDU 7430.

EDU7420 - Quant Inquiry in Edu I

General

College/School
Education and Human Sciences

Course Title
Quant Inquiry in Edu I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program and introductory course in statistics. In-depth training and understanding of common descriptive and inferential statistical techniques for conducting research and engaging in scholarly activities.

EDU7430 - Quant Inquiry in Edu II

General

College/School
Education and Human Sciences

Course Title
Quant Inquiry in Edu II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program and EDU 7420. In-depth analysis that reinforces and expands common descriptive and inferential statistical techniques and includes advanced material appropriate for more complex research problems.

Requisites

Simple Requirements

Prerequisite: Admission to Doctoral Program and EDU 7420.

EDU7900 - Scholarly Inquiry and Design Seminar

General

College/School
Education and Human Sciences

Course Title
Scholarly Inquiry & Design Sem

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to doctoral program and EDU 7300. Builds on research design principles from EDU 7420, 7430, and 7300. Emphasizes development of rigorous research inquiry, and uses critical examination of scholarly literature to refine research agenda and theoretical framework.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- EDU7300 - Research Design

Admission to doctoral program.

EDU7920 - Research Seminar/Education

General

College/School
Education and Human Sciences

Course Title
Research Seminar/Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Admission to Doctoral Program; EDU 7010 , EDU 7300 , EDU 7330 , EDU 7340 , EDU 7420 , and EDU 7430 ; EDU 7310 or EDU 7320 In depth examination of experimental, quasiexperimental, and evaluation research as applied to dissertation research.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; EDU 7010, EDU 7300, EDU 7330, EDU 7340, EDU 7420, and EDU 7310 or EDU 7320.

EDU7950 - Doctoral Sem:Sp Top/Education

General

College/School
Education and Human Sciences

Course Title
Doctoral Sem:Sp Top/Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDU

Course Number
7950

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
6

Course Description
Consent of the student's doctoral chairperson required.

EDU7990 - Research and Dissertation

General

College/School
Education and Human Sciences

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral

Course Subject Code
EDU

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
Prerequisite: Admission to Doctoral Program; EDU 7920 .

Requisites

Simple Requirements

Prerequisite: EDU 7920.

EDUB6000 - Concept Tps/Prin in Behvl Anal

General

College/School
Education and Human Sciences

Course Title
Concept Tps/Prin in Behvl Anal

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6000

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
An introduction to concepts and principles related to behavior analytic procedures. For students in ABA concentration only. Students enrolled in the 7000-level course will be required complete additional work as stated in the syllabus.

EDUB6001 - Prin of Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Prin of Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6001

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course content includes, but is not limited to, the basic concepts and principles of operant and respondent conditioning. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6002 - Behavior Assessment

General

College/School
Education and Human Sciences

Course Title
Behavior Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6002

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focuses on selecting, designing, implementing, and monitoring assessments used in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6003 - Behavior Intervention

General

College/School
Education and Human Sciences

Course Title
Behavior Intervention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6003

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focuses on behavior intervention techniques and approaches used in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6004 - Theory & Phil in Bhav Analysis

General

College/School
Education and Human Sciences

Course Title
Theory & Phil in Bhav Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6004

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course content includes, but is not limited to, the underlying theoretical and philosophical foundations of behavior analysis (i.e., behaviorism). Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6005 - Organizational Behavior Mngmt

General

College/School
Education and Human Sciences

Course Title
Organizational Behavior Mngmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6005

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focuses on research-based practices and content that includes, but is not limited to, performance analysis and management, supervision, staff training, behavioral systems analysis, organizational culture, and leadership. The design and delivery of intervention and treatments to students with Autism Spectrum Disorders. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6006 - Ethics in ABA

General

College/School
Education and Human Sciences

Course Title
Ethics in ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6006

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An overview of the ethical concerns related to applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6007 - Resch Methods in Bhav Analysis

General

College/School
Education and Human Sciences

Course Title
Resch Methods in Bhav Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6007

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The primary goal of this course is to provide students with a complete, accurate, and contemporary view of measurement and research methods in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6008 - Topics/Applied Behavior Analys

General

College/School
Education and Human Sciences

Course Title
Topics/Applied Behavior Analys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6008

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Up-to-date content on emerging behavior analysis topics. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB6010 - Topics in Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Topics in Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing: EDUB 7010.
Prerequisite: EDUB 6050. An in-depth study of instructional methodologies for persons with moderate and severe disabilities. For students in ABA concentration only. Students in the 7000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: EDUB 6050.

EDUB6020 - Behr Chng Proc/Syst Sup in ABA

General

College/School
Education and Human Sciences

Course Title
Behr Chng Proc/Syst Sup in ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EDUB 6000. The design, implementation, and evaluation of behavioral interventions and individualized behavioral supports using theoretical origins and behavior-analytic behavior change procedures. For students in ABA concentration only. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: EDUB 6000.

EDUB6030 - Assessment/Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Assessment/Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Cross-listing EDUB 7030. Instruction in the functional analysis of severe and challenging behaviors. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

EDUB6050 - ABA Aprchs/Devlpmtl Disablts

General

College/School
Education and Human Sciences

Course Title
ABA Aprchs/Devlpmtl Disablts

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Cross-listing: EDUB 7050. A comprehensive overview of research-based practices in the design and delivery of intervention and treatments to students with Autism Spectrum Disorders. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

EDUB6060 - Ethics in ABA

General

College/School
Education and Human Sciences

Course Title
Ethics in ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing: EDUB 7060. An overview of the ethical concerns related to the practice of applied behavior analysis. Students enrolled in the 7000-level course will be required to compete additional work as stated in the syllabus.

EDUB6100 - Capstone in Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Capstone in Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EDUB 6007. Reviews foundational ABA concepts, principles, and applications through a capstone format. Covers experimental research findings, ABA principles, behavioral intervention, and knowledge of experimental and single-subject research.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- EDUB6007 - Resch Methods in Bhav Analysis

EDUB6320 - Rsch Meth/Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Rsch Meth/Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An in-depth analysis of measurements, data, interpretation, and experimental design in behavior analysis focusing on single case methodology.

EDUB6810 - Practicum in Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Practicum in Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
6810

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Cross-listing: EDUB 7810. Supervised practice in development and application of behavioral ntervention. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated multiple times.

EDUB7000 - Concept Tps/Prin in Behvl Anal

General

College/School
Education and Human Sciences

Course Title
Concept Tps/Prin in Behvl Anal

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An introduction to concepts and principles related to behavior analytic procedures. For students in ABA concentration only. Students enrolled in the 7000-level course will be required complete additional work as stated in the syllabus.

EDUB7001 - Prin of Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Prin of Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7001

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program or Admission to Specialist in Education (C & I) Applied Behavioral Analysis concentration. Course content includes, but is not limited to, the basic concepts and principles of operant and respondent conditioning Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7002 - Behavior Assessment

General

College/School
Education and Human Sciences

Course Title
Behavior Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7002

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. Focuses on selecting, designing, implementing, and monitoring assessments used in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7003 - Behavior Intervention

General

College/School
Education and Human Sciences

Course Title
Behavior Intervention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7003

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. Focuses on behavior intervention techniques and approaches used in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7004 - Theory & Phil in Bhav Analysis

General

College/School
Education and Human Sciences

Course Title
Theory & Phil in Bhav Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7004

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. Course content includes, but is not limited to, the underlying theoretical and philosophical foundations of behavior analysis (i.e., behaviorism). Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7005 - Organizational Behavior Mngmt

General

College/School
Education and Human Sciences

Course Title
Organizational Behavior Mngmt

Academic Level (Course Level)
Doctoral, Specialist in Education

Course Subject Code
EDUB

Course Number
7005

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. Focuses on research-based practices and content that includes, but is not limited to, performance analysis and management, supervision, staff training, behavioral systems analysis, organizational culture, and leadership. The design and delivery of intervention and treatments to students with Autism Spectrum Disorders. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7006 - Ethics in ABA

General

College/School
Education and Human Sciences

Course Title
Ethics in ABA

Academic Level (Course Level)
Graduate, Specialist in Education, Doctoral

Course Subject Code
EDUB

Course Number
7006

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An overview of the ethical concerns related to applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Admission to Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavior Analysis concentration.

EDUB7007 - Resch Methods in Bhav Analysis

General

College/School
Education and Human Sciences

Course Title
Resch Methods in Bhav Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7007

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. The primary goal of this course is to provide students with a complete, accurate, and contemporary view of measurement and research methods in applied behavior analysis. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7008 - Topics/Applied Behavior Analys

General

College/School
Education and Human Sciences

Course Title
Topics/Applied Behavior Analys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7008

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the Doctoral Program or Admission to Specialist in Education (C&I) Applied Behavioral Analysis concentration. Up-to-date content on emerging behavior analysis topics. Students enrolled in the 7000-level course must complete an additional assignment.

EDUB7010 - Topics in Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Topics in Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing EDUB6010.
Prerequisite: EDUB 6050. An in-depth study of instructional methodologies for persons with moderate and severe disabilities. For students in ABA concentration only. Students in the 7000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: EDUB 6050

EDUB7020 - Behvrl Chng Proc Sys Sup/ABA

General

College/School
Education and Human Sciences

Course Title
Behvrl Chng Proc Sys Sup/ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: EDUB 7000. The design, implementation, and evaluation of behavioral interventions and individualized behavioral supports using theoretical origins and behavior-analytic behavior change procedures. For students in ABA concentration only. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: EDUB 7000.

EDUB7030 - Assessment/Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Assessment/Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Cross-listing: EDUB 6030. Prerequisite: Admission to Doctoral Program. Instruction in the functional analysis of severe and challenging behaviors. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

EDUB7040 - Assmnt/Autism Spectrum Disrdrs

General

College/School
Education and Human Sciences

Course Title
Assmnt/Autism Spectrum Disrdrs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to the Ph.D. program and SPED 6050. A comprehensive overview of assessment methods used in the evaluation of children with Autism Spectrum Disorders.

Requisites

Simple Requirements

Prerequisites: Admission to the Ph.D. program and SPED 6050.

EDUB7050 - ABA Aprchs/Devlpmtl Disablts

General

College/School
Education and Human Sciences

Course Title
ABA Aprchs/Devlpmtl Disablts

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing: EDUB 6050. Prerequisites: Admission to the Ph.D. Program, and EDUB 7040. A comprehensive overview of research-based practices in the design and delivery of intervention and treatments to students with Autism Spectrum Disorders. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Admission to the Ph.D. Program and EDUB 7040.

EDUB7060 - Ethics in ABA

General

College/School
Education and Human Sciences

Course Title
Ethics in ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUB

Course Number
7060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing: EDUB 6060. An overview of the ethical concerns related to the practice of applied behavior analysis. Students enrolled in the 7000-level course will be required to compete additional work as stated in the syllabus.

EDUB7100 - Capstone in Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Capstone in Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7100

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EDUB 7007. Reviews foundational ABA concepts, principles, and applications through a capstone format. Covers experimental research findings, ABA principles, behavioral intervention, and knowledge of experimental and single-subject research. Students enrolled in the 7000-level course must complete an additional assignment.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- EDUB7007 - Resch Methods in Bhav Analysis

EDUB7200 - Behavior Analysis Internship

General

College/School
Education and Human Sciences

Course Title
Behavior Analysis Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Admission to Doctoral Program. Supervised experiences in behavior analysis (e.g., clinical practice, supervision, research and scholarship, teaching, and/or leadership and advocacy).

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Admission to Doctoral Program.

EDUB7300 - Teaching Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Teaching Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. Introduces the major roles, responsibilities, and activities of behavior analysis educators. Includes instructional theory and methods related to teaching the history and philosophy of behaviorism, theoretical approaches to understanding behavior, interpretation of behavior in terms of the concepts and principles of behavior analysis, and interpretation of behavior analysis research.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Admission to Doctoral Program.

EDUB7400 - Research, Scholarship, and Publication in Basic Bx Analysis

General

College/School
Education and Human Sciences

Course Title
Res/Schshp/Pub/Bsc Bx Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. Exploration of emergent research practices and processes, professional writing and conference proposal preparation, and ethical and culturally relevant strategies for conducting basic and applied research in behavior analysis.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Admission to Doctoral Program.

EDUB7810 - Pract: Behavior Analysis

General

College/School
Education and Human Sciences

Course Title
Pract: Behavior Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUB

Course Number
7810

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Cross-listing: EDUB 6810. Prerequisite: EDUB 7010, 7030; SPED 6050; Admission to Doctoral Program. Supervised practice in development and application of behavioral intervention. Students enrolled in the 7000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated multiple times.

Requisites

Simple Requirements

Prerequisites: EDUB 7010, EDUB 7030, and SPED 6050.

EDUC7400 - Prog & Serv Delivery Models

General

College/School
Education and Human Sciences

Course Title
Prog & Serv Delivery Models

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUC

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Analysis and comparison of organizations, program design, leadership, administrative, and supervisory practices.

EDUC7450 - Doctoral Sem:Yng Child & Fam

General

College/School
Education and Human Sciences

Course Title
Doctoral Sem:Yng Child & Fam

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUC

Course Number
7450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description

Prerequisite: Admission to Doctoral Program. Inquiry into social policy, theory, research, issued, and intervention practices and personnel preparation.

EDUH7000 - Current Issues in EXPW/EDUH

General

College/School
Education and Human Sciences

Course Title
Current Issues in EXPW/EDUH

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The content of this course will vary according to current research and publications in areas of exercise science, health behavior, and wellness education related to exercise and physical activity.

EDUH7010 - Pedagogical Theory of Phy Edu

General

College/School
Education and Human Sciences

Course Title
Pedagogical Theory of Phy Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will cover interpretation and critical analysis of research on selected topics related to teaching and instruction in physical education.

EDUH7020 - Adv Tchng/Ex Sci-Hlth Rl Flds

General

College/School
Education and Human Sciences

Course Title
Adv Tchng/Ex Sci-Hlth Rl Flds

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to provide knowledge, opportunity, and support for quality teaching in exercise science and related health fields. Methodology of teaching in higher education will be explored.

EDUH7030 - Grant Writing and Scholarly Publication in Exercise Science

General

College/School
Education and Human Sciences

Course Title
Grant Write & Sch Pub in Ex Sc

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUH

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides needed training for students in two essential professional competencies: acquiring research/program funding and publishing scholarly work. Students examine funding mechanisms, peer-reviewed publication processes, and ethical authorship practices while producing components of a competitive grant proposal and a manuscript suitable for journal submission. Emphasis is placed on crafting clear, persuasive research narratives aligned with disciplinary and interdisciplinary funding priorities.

Requisites

Simple Requirements

No Prerequistes

EDUH7100 - Biomechanics of Human Movement

General

College/School
Education and Human Sciences

Course Title
Biomechanics of Human Movement

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to the PhD program. This course will cover kinetic and kinematic principles governing efficient human movement. Selected methods of analyzing human movement will be covered.

EDUH7200 - Foundations/Health Promotion

General

College/School
Education and Human Sciences

Course Title
Foundations/Health Promotion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to the PhD program. This course is designed to provide focus on health promotion and behavior changing strategies. Individual, interpersonal, organizational, community, and public policy will be considered as potential factors that can inhibit or promote behavior change specifically related to health issues.

EDUH7300 - Bhvrl Aspects/Phys Actvity

General

College/School
Education and Human Sciences

Course Title
Bhvrl Aspects/Phys Actvity

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to the PhD program. This course will include topics such as the effects exercise has on mental health, behavior change theories applied to mental health effects of exercise, behavior change theories applied to physical activity, and physical activity determinants and interventions.

EDUH7310 - Advanced Studies in Health Behavior and Health Behavior Change

General

College/School
Education and Human Sciences

Course Title
Adv Stu Hlth Beh & Hlth Beh Ch

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUH

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines advanced theories, models, and empirical research related to health behavior and health behavior change across diverse populations and settings. Students critically analyze determinants of behavior, intervention design, and behavior change strategies, with emphasis on theory-driven, evidence-based approaches and methodological rigor. The course prepares students to design, evaluate, and translate health behavior interventions that promote sustainable health and well-being.

Requisites

Simple Requirements

No Prerequisites

EDUH7500 - Hlth Bhvr & Welns Edu Rsrch

General

College/School
Education and Human Sciences

Course Title
Hlth Bhvr & Welns Edu Rsrch

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to the PhD program. Students will read, interpret, and critique scientific research.

EDUH7520 - Inquiry/Hlth Bhvr & Welns Edu

General

College/School
Education and Human Sciences

Course Title
Inquiry/Hlth Bhvr & Welns Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to the PhD program. Can be repeated for up to 12 hours credit. Students will conduct research.

EDUH7600 - Sp Top/EXPW

General

College/School
Education and Human Sciences

Course Title
Sp Top/EXPW

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7600

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
This course is designed to provide students with the opportunity to review literature on topics they are interested in and to write a literature review. The intent is for the candidate to expand their knowledge base, gain factual information about topics of interest, and identify options for future research projects.

EDUH7610 - Ind Study in EXPW/EDUH

General

College/School
Education and Human Sciences

Course Title
Ind Study in EXPW/EDUH

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUH

Course Number
7610

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Topics to be assigned and approved by instructor and advisor.

EDUL7100 - Literacy Hist, Theory & Policy

General

College/School
Education and Human Sciences

Course Title
Literacy Hist, Theory & Policy

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Exploration of the history and theory related to reading and writing instruction. Policies influencing literacy instruction, past and present, will also be examined.

EDUL7200 - Supporting Learners Impacted by Poverty

General

College/School
Education and Human Sciences

Course Title
Support Lrns Impacted/Poverty

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Explores the concept of deficit thinking in education, focusing on how assumptions and narratives about students affected by poverty can influence teaching practices and learning outcomes. Equips learners with the language, skills, and strategies necessary to challenge these assumptions and narratives, fostering more supportive and empowering learning experiences for all students.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Admission to doctoral program.

EDUL7300 - Multiliteracies

General

College/School
Education and Human Sciences

Course Title
Multiliteracies

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Explores multiple and new literacies, moving beyond traditional reading and writing to examine the multimodal ways of meaning making and communicating and their place in pedagogy and practice. Prerequisite: admission to doctoral program.

EDUL7400 - Language Theory and Applications

General

College/School
EH

Course Title
Language Theory & Applications

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Integration of concepts fundamental to understanding human communication, interpretation, and meaning making of languages. Examination of how language shapes thought processes, communication, and the development of social connections.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Admission to doctoral program.

EDUL7500 - Linguistic Perceptions

General

College/School
Education and Human Sciences

Course Title
Linguistic Perceptions

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Pre-requisite: Admission to doctoral program. Explores perceptions of the world through the language that we use and belief systems we create.

EDUL7600 - The Literacy Professional

General

College/School
Education and Human Sciences

Course Title
The Literacy Professional

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Pre-requisite: Admission to doctoral program. Exploring the various roles of the literacy professional. Preparing for grant and article submission.

EDUL7700 - Thry, Mthds, Trnds/Lit Rsrch

General

College/School
Education and Human Sciences

Course Title
Thry, Mthds, Trnds/Lit Rsrch

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Examines major theories and methodologies in literacy research and explores new trends in the field.

EDUL7850 - Discourse Analysis

General

College/School
Education and Human Sciences

Course Title
Discourse Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUL

Course Number
7850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explores discourse analysis, critical discourse analysis and the use of AI in analysis.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Admission to Doctoral Program.

EDUL7900 - Community Literacy

General

College/School
Education and Human Sciences

Course Title
Community Literacy

Academic Level (Course Level)
Doctoral

Course Subject Code
EDUL

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Pre-requisite: Admission to doctoral program. Working to explore and participate in various literacy initiatives within the community.

EDUL7950 - Special Topics

General

College/School
Education

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUL

Course Number
7950

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Critical Discourse and Literacy Studies designed to intensely study a specific topic.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Admission to Doctoral Program

Additional Comments:
Course may be repeated up to 3 times for a total of 9 credit hours.

EDUP7410 - Adv Planning & Eval Meth I

General

College/School
Education and Human Sciences

Course Title
Adv Planning & Eval Meth I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUP

Course Number
7410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program. Exploration of program planning and evaluation theories and methods used to evaluate programs and improvement initiatives.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program.

EDUP7420 - Adv Planning & Eval Meth II

General

College/School
Education and Human Sciences

Course Title
Adv Planning & Eval Meth II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUP

Course Number
7420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. Integration and application of theories, best practices, and contextual knowledge to program planning and evaluation processes.

Requisites

Simple Requirements

Prerequisite: Admission to Doctoral Program.

EDUP7810 - Pract/Planning & Evaluation

General

College/School
Education and Human Sciences

Course Title
Pract/Planning & Evaluation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUP

Course Number
7810

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
9

Course Description
Prerequisite: Admission to Doctoral Program. Supervised application of program planning and evaluation theories and practices in a variety of settings.

EDUS7500 - STEM Education Foundations

General

College/School
Education and Human Sciences

Course Title
STEM Education Foundations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7500

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: Admission to doctoral program. Introduction to the educational, political, economic, and socio-cultural foundations of the STEM and STEM education disciplines including the history and development of STEM education with attention to the STEM content in P-16 settings. Topics include: introduction to the nature of each of the STEM and STEM education disciplines; investigation of related political, economic, and socio-cultural foundations; and frameworks for constructing personal perspectives and philosophies of integrative STEM education.

EDUS7510 - STEM Curriculum & Assessment

General

College/School
Education and Human Sciences

Course Title
STEM Curriculum & Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to doctoral program. Current trends in STEM curriculum development and assessment. Topics include: defining objectives; planning for improvement; organization of instructional materials; and STEM curriculum evaluation.

EDUS7515 - STEM Education Seminar

General

College/School
Education and Human Sciences

Course Title
STEM Education Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7515

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisite: Admission to doctoral program. Designed as a general exploration into the issues surrounding the development of a STEM literate populace through education. This exploration will be facilitated by a blend of readings, discussions, and personal reflections.

EDUS7520 - STEM Technology Seminar

General

College/School
Education and Human Sciences

Course Title
STEM Technology Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7520

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisite: Admission to doctoral program. Focused on STEM-specific technologies (e.g., Vernier probes, TI-Navigation systems, LoggerPro software, etc.), how to use them, and the issues surrounding their use in STEM education.

EDUS7530 - STEM Education Research

General

College/School
Education and Human Sciences

Course Title
STEM Education Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to doctoral program; EDU 7420 or EDU 7010 . Survey of the educational research practices of STEM disciplines; investigates the approaches used in studying the teaching/learning processes within the context of each discipline; similarities, distinctions and overlaps among questions posed, research designs, and investigations into best practices with respect to improving teaching and learning among STEM disciplines.

Requisites

Simple Requirements

Prerequisite: Admission to doctoral program; EDU 7420 or EDU 7010.

EDUS7540 - STEM Education Pedagogy

General

College/School
Education and Human Sciences

Course Title
STEM Education Pedagogy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EDUS

Course Number
7540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to doctoral program. Signature pedagogies unique to the fields of science, technology, engineering, and mathematics (STEM) education; strengths and limitations associated with signature pedagogies; and insights into pedagogical strategies that can serve to enhance practices within chosen STEM fields.

EDUS7550 - STEM Edu Trends and Issues

General

College/School
Education and Human Sciences

Course Title
STEM Edu Trends and Issues

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to doctoral program. Introduction to contemporary P-16 STEM education trends and issues, including both integrative and within-discipline trends/issues. Topics such as STEM literacy, integrative STEM teaching/learning, purposeful design and inquiry, legislative initiatives, and change theory are among those addressed in this course.

EDUS7560 - STEM Learns and Learning

General

College/School
Education and Human Sciences

Course Title
STEM Learns and Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to doctoral program. Designed to explore the theoretical bases for STEM learning. Topics will include the development of STEM learning environments; research on learning in STEM; and STEM learner exceptionalities.

EDUS7570 - STEM Edu Policy & Leadership

General

College/School
Education and Human Sciences

Course Title
STEM Edu Policy & Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to doctoral program. Designed to explore the theoretical bases for STEM learning. Topics will include the development of STEM learning environments; research on learning in STEM; and STEM learner exceptionalities.

EDUS7580 - STEM Education Field Study

General

College/School
Education and Human Sciences

Course Title
STEM Education Field Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EDUS

Course Number
7580

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Prerequisite: Admission to doctoral program. Applied study in one or more educational institutions. Research, evaluation, curricular, and instructional STEM projects are examples of appropriate areas of study.

ELED6400 - Adv Studies/Elem Sci Edu

General

College/School
Education and Human Sciences

Course Title
Adv Studies/Elem Sci Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ELED

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Explores and analyzes current issues and trends in methods, materials, and content in teaching elementary school science. Special emphasis will be on problem-solving skills.

ELED6500 - Diag & Rem Tech Elem Math

General

College/School
Education and Human Sciences

Course Title
Diag & Rem Tech Elem Math

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ELED

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analyzes techniques used by regular classroom teachers in diagnosing and correcting learning difficulties associated with elementary school mathematics.

ELED6600 - Organizing Theme-Soc Stu

General

College/School
Education and Human Sciences

Course Title
Organizing Theme-Soc Stu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ELED

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explores the basic organizing themes and conceptual framework utilized in social studies instruction.

ELED7400 - The Literacy Lang Arts Program

General

College/School
Education and Human Sciences

Course Title
The Literacy Lang Arts Program

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ELED

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Current curricular issues concerning language arts education, including use of storytelling and writing activities to enhance reading and language skills.

ELPA6560 - Small Group Leadership

General

College/School
TN eCampus Degree

Course Title
Small Group Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ELPA

Course Number
6560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

EMGT6100 - Intro/Engineering Management

General

College/School
Engineering

Course Title
Intro/Engineering Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Broad introduction to engineering management fundamentals as applied to scientific or technological organizations; including discipline definitions, management and leadership principles, basic organization structures, project management practices, and ethical decisions.

EMGT6210 - Project Management for Engineers

General

College/School
Engineering

Course Title
Project Mgmt for Engineers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: EMGT 6100 Introduction to Engineering Management and undergraduate calculus-based probability and statistics. Comprehensive understanding of the fundamentals of project management as applied to scientific or technological organizations; including project planning, organizing, staffing, scheduling, budgeting and controlling.

Requisites

Simple Requirements

Prerequisite: EMGT 6100 Introduction to Engineering Management

EMGT6220 - Project Development and Relationships

General

College/School
Engineering

Course Title
Project Dev. & Relationships

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites (if applicable): Successful completion of EMGT 6210: Project Management 1. Building upon the EMGT 6210 Project Management I course, Project Management II examines the relationship between a project and its procurement and implementation, including RFPs, proposals, contracts, project charter, bridging documents, and issues of quality and integrity. Emphasis is also placed on external topics that impact project management including business development, relationship management, and negotiation.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

Prerequisite: EMGT 6210 – Project Management for Engineers

EMGT6230 - Systems Engineering Management

General

College/School
Engineering

Course Title
Systems Engineering Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EMGT 6210 Project Management 1. Advanced understanding and application of system-wide tools for the management of large scale, technical projects.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

Prequisite: EMGT 6210 – Project Management for Engineers

EMGT6300 - Decision Analysis

General

College/School
Engineering

Course Title
Decision Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites (if applicable): CEE 6200 Statistical Inference for Engineers. The course will focus on complex decisions that involve tradeoffs among objectives or are made in the face of uncertainty. Topics include the nature of decision-making; tools for framing and analyzing hard decisions; risk and uncertainty in decision-making; the value of information; and ethical decision-making.

EMGT6900 - Professional Project

General

College/School
Engineering

Course Title
Professional Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EMGT

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites: Acceptance in the Engineering Management degree program and completion of at least 24 hours of credit. The Professional Project is the capstone course for the Master of Science in Engineering Management degree, serving as the integrative culmination of the degree program.

ENGL5111 - Chaucer

General

College/School
Arts and Sciences

Course Title
Chaucer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5111

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected works of Geoffrey Chaucer. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5121 - Shakespeare

General

College/School
Arts and Sciences

Course Title
Shakespeare

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5121

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Historical, thematic, and other approaches in the study of Shakespeare. (May be repeated once as an elective, provided the course content is different.) Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5130 - Milton

General

College/School
Arts and Sciences

Course Title
Milton

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected works of John Milton. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5140 - Topics in British Lit to 1667

General

College/School
Arts and Sciences

Course Title
Topics in British Lit to 1667

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics in Medieval and/or Early Modern British literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated, provided the content is different each time.

Requisites

ENGL5210 - 18th Century British Lit

General

College/School
Arts and Sciences

Course Title
18th Century British Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies in eighteenth-century British literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5221 - Romantic Literature

General

College/School
Arts and Sciences

Course Title
Romantic Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5221

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies in Romantic literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5231 - Victorian Literature

General

College/School
Arts and Sciences

Course Title
Victorian Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5231

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies in Victorian literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5240 - Topics:British Lit After 1667

General

College/School
Arts and Sciences

Course Title
Topics:British Lit After 1667

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies in Modern British literature. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated, provided the content is different each time.

Requisites

ENGL5250 - Post-Modern Literatures/Engl

General

College/School
Arts and Sciences

Course Title
Post-Modern Literatures/Engl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies in post modern literary issues. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for Upper Division courses of ENGL 2130, ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5310 - Early American Literature

General

College/School
Arts and Sciences

Course Title
Early American Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of American literature from colonial period through early nationalist period. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

Requisites

Simple Requirements

Prerequisites: None

ENGL5320 - 19th Century American Lit

General

College/School
Arts and Sciences

Course Title
19th Century American Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of the literature and literary movements of the period, with emphasis on romanticism and/or realism. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

ENGL5321 - 19th Century American Lit

General

College/School
Arts and Sciences

Course Title
19th Century American Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5321

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of the literature and literary movements of the period, with emphasis on romanticism and/or realism. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5330 - Modern American Literature

General

College/School
Arts and Sciences

Course Title
Modern American Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of the literature and literary movements of the period, with emphasis on the twentieth century and/or contemporary period. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5340 - Topics in American Literature

General

College/School
Arts and Sciences

Course Title
Topics in American Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Thematic, interdisciplinary, or genre-based approaches to American literary study beyond the usual scope of ENGL 4310 (5310), ENGL 4320 (5320), or ENGL 4330 (5330). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated, provided the content is different each time.

Requisites

ENGL5411 - Writing in the Professions

General

College/School
Arts and Sciences

Course Title
Writing in the Professions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5411

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course builds on students¿ present writing competency and focuses on writing in their particular majors and/or professions. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5421 - Forms of Arg-Pers/Theo-Prac

General

College/School
Arts and Sciences

Course Title
Forms of Arg-Pers/Theo-Prac

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5421

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces students to various models of argumentation through theory (readings) and practice (analysis and production). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5430 - Creative Writing: Fiction

General

College/School
Arts and Sciences

Course Title
Creative Writing: Fiction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Prior consent of instructor (for graduate students not in the Creative Writing concentration). Guided practice in the craft and art of writing short fiction. Course may be repeated, provided the content is different each time. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5440 - Creative Writing: Essay

General

College/School
Arts and Sciences

Course Title
Creative Writing: Essay

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Prior consent of instructor (for graduate students not in the Creative Writing concentration). Guided practice in the craft and art of writing personal essays. Course may be repeated, provided the content is different each time. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5450 - Creative Writing: Poetry

General

College/School
Arts and Sciences

Course Title
Creative Writing: Poetry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Grade of C or better in ENGL 3400 or prior consent of instructor. Guided practice in the craft and art of writing poems. Course may be repeated, provided the content is different each time. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5451 - Intro-Rhetoric/Theo-Prac

General

College/School
Arts and Sciences

Course Title
Intro-Rhetoric/Theo-Prac

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5451

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The course introduces students to rhetoric--history and special topics.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5460 - Lit/Mag Editing/Iris Review

General

College/School
Arts and Sciences

Course Title
Lit/Mag Editing/Iris Review

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Enrolment in the English MA. Creation of a literary magazine annual edition from initial call for submissions through publication. Course may not be repeated at the graduate level.

Requisites

ENGL5470 - Topics in Adv Creative Writing

General

College/School
Arts and Sciences

Course Title
Topics in Adv Creative Writing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Thematic, genre-based, or research-inflected creative writing workshop, at a level of advanced practice. Course may be repeated provided the content is different each time. Possible topics include Creative Research, Witness Writing, Social Issues, Identity, and Multimedia.

Requisites

Simple Requirements

Prerequisite: ENGL4430 Creative Writing: Fiction(ENGL5430 Creative Writing: Fiction) or ENGL4440 Creative Writing: Essay(ENGL5440 Creative Writing: Essay) or ENGL4450 Creative Writing: Poetry(ENGL5450 Creative Writing: Poetry), or prior consent of the instructor.

ENGL5511 - Intro/Descriptive Linguistics

General

College/School
Arts and Sciences

Course Title
Intro/Descriptive Linguistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5511

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to descriptive analysis of language: phonology, morphology, lexicon, and syntax. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5521 - History-English Language

General

College/School
Arts and Sciences

Course Title
History-English Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5521

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
History of the language from its origins to the present, emphasis upon historical development of English sounds, word structure, and syntax. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5531 - Grammar and Language

General

College/School
Arts and Sciences

Course Title
Grammar and Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5531

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Grammatical structure of English in relation to dialect and register with some emphasis on historical and potential changes in grammar. Course may be repeated provided the content is different each time.

Requisites

ENGL5541 - Topics in Linguistics/Language

General

College/School
Arts and Sciences

Course Title
Topics in Linguistics/Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5541

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of specific aspects of language and/or linguistic study, such as Old and Middle English, the language of dialect literature, or American English dialects. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated provided the content is different each time.

Requisites

ENGL5551 - Intro-Rhetoric/Theo-Prac

General

College/School
Arts and Sciences

Course Title
Intro-Rhetoric/Theo-Prac

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5551

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Grammatical structure of English in relation to dialect and register with some emphasis on historical and potential changes in grammar. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5561 - American English

General

College/School
Arts and Sciences

Course Title
American English

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5561

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This class will examine American English from multiple cultural and linguistic angles and allow the students to develop their own understanding of how the language around them shapes their lives. Students enrolled in the 5000-level course will e required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5610 - Novel

General

College/School
Arts and Sciences

Course Title
Novel

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory of the novel and a study of selected novels. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5620 - Poetry: Form, Genre, Theory

General

College/School
Arts and Sciences

Course Title
Poetry: Form, Genre, Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The study of poetry written in English and translated from other languages, with attention to such topics as poetic movements, styles, trends, the evolution and development of forms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5630 - Literary Criticism and Theory

General

College/School
Arts and Sciences

Course Title
Literary Criticism and Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Historical and thematic studies of critical and theoretical trends and issues. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5640 - Modern & Contemporary Drama

General

College/School
Arts and Sciences

Course Title
Modern & Contemporary Drama

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of dramatic texts and performance issues from the late 19th century to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5650 - The Graphic Novel

General

College/School
Arts and Sciences

Course Title
The Graphic Novel

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Theory of comics-format texts and study of selected graphic novels. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

ENGL5712 - African American Literature

General

College/School
Arts and Sciences

Course Title
African American Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5712

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Studies of African American literature and culture, both oral and printed. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5713 - Native American Literature

General

College/School
Arts and Sciences

Course Title
Native American Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5713

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies of Native American literature and culture, both oral and printed. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5720 - Continental Literature

General

College/School
Arts and Sciences

Course Title
Continental Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of major works and writers from the European continent. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5731 - Approaches to Women & Lit

General

College/School
Arts and Sciences

Course Title
Approaches to Women & Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5731

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Studies of major women writers or images of women in literature. Course may be repeated, provided course content is different each time. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5741 - Science and Culture

General

College/School
Arts and Sciences

Course Title
Science and Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5741

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cultural influences on scientific discourse and literature about science. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235, or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5751 - Topics in Non-Western Lit

General

College/School
Arts and Sciences

Course Title
Topics in Non-Western Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5751

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focuses on literature written outside of European literary traditions, either written or translated into English. (Course may be repeated, provided the content is different each time.) Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated, provided the content is different each time.

Requisites

ENGL5810 - Introduction to Folklore

General

College/School
Arts and Sciences

Course Title
Introduction to Folklore

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Generic survey of folklore; possible definitions, varieties, meanings, and methods of study. Stress on verbal traditions (tales, songs, and beliefs). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5820 - Upper Cumberland Folklore

General

College/School
Arts and Sciences

Course Title
Upper Cumberland Folklore

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Folklore of the Upper Cumberland with emphasis on relationships between regional material and the broad perspective of the humanities. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

ENGL5830 - Southern Literature

General

College/School
Arts and Sciences

Course Title
Southern Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Major writers of the South, with emphasis on regional themes and on the Southern literary renaissance. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5840 - The Gothic Tale of Terror

General

College/School
Arts and Sciences

Course Title
The Gothic Tale of Terror

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Readings in Gothic poetry and prose. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5910 - The Literature of Science

General

College/School
Arts and Sciences

Course Title
The Literature of Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5910

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Topics in literary nonfiction written by scientists. Note: Students will not receive credit for both ENGL 4910 (5910) and ENGL 4911 (5911). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5911 - The Literature of Science

General

College/School
Arts and Sciences

Course Title
The Literature of Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5911

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics in literary non-fiction written by scientists. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5920 - Literature and Technology

General

College/School
Arts and Sciences

Course Title
Literature and Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5920

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Study of British and American literature which deals with the impact of technology on society. Note: Students will not receive credit for both ENGL 4920 (5920) and ENGL 4921 (5921). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5921 - Literature and Technology

General

College/School
Arts and Sciences

Course Title
Literature and Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5921

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of literature which deals with the impact of technology on society. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5930 - Lit and the Environment

General

College/School
Arts and Sciences

Course Title
Lit and the Environment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5930

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
A study, through literature, of the relationship between humans and the environment. Note: Students will not receive credit for both ENGL 4930 (5930) and ENGL 4931 (5931). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5931 - Lit and the Environment

General

College/School
Arts and Sciences

Course Title
Lit and the Environment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5931

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study, through literature, of the relationship between humans and the environment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5950 - Topics in Prof/Tech Comm

General

College/School
Arts and Sciences

Course Title
Topics in Prof/Tech Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ENGL 3250 or PC 3250. In-depth study of topics relevant to the field of Professional and Technical communication. Course may be repeated provided the content is different.

Requisites

ENGL5970 - Professional Comm II

General

College/School
Arts and Sciences

Course Title
Professional Comm II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Continuation of PC 3250 with emphasis on more complex documents. (Same as PC 4970 (5970)). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all Upper Division courses. The prerequisite for Upper Division courses of ENGL 2130, ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5980 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5980

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: ENGL 1010 and ENGL 1020 and one course from among ENGL 2130, ENGL 2235, and ENGL 2330 are prerequisites for all upper division courses. The prerequisite for upper-division courses of ENGL 2130 or ENGL 2235 or ENGL 2330 is waived for ENGL and SEEN majors.

ENGL5981 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5981

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Course work or directed individual research in any area where there is no other course offering. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5982 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5982

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Course work or directed individual research in any area where there is no other course offering. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5983 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
5983

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course work or directed individual research in any area where there is no other course offering. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ENGL5990 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
5990

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
12

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
12

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
12

Course Description
Part-time or full-time employment in a business or institutional setting related to a student¿s academic and career goals and cannot be taken in place of required or elective English courses, undergraduate or graduate. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: graduate status, ENGL 5350, and consent of instructor. Junior or Senior status, at least two ENGL courses at the 3000-level or above, and consent of chair or internship coordinator.

ENGL6000 - Intro-Graduate Studies

General

College/School
Arts and Sciences

Course Title
Intro-Graduate Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Bibliography, research methods, current theories, scholarly writing, professional issues and practices, and creation of professional portfolios.

Requisites

Simple Requirements

Prerequisites: None

ENGL6005 - Writing Seminar in English

General

College/School
Arts and Sciences

Course Title
Writing Seminar in English

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6005

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
An in-depth examination of long form writing techniques and best practices in English to support MA students creating theses in literature and creative writing.

Requisites

ENGL6010 - Teaching Composition

General

College/School
Arts and Sciences

Course Title
Teaching Composition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Theories and pedagogies of teaching writing in the middle schools, secondary schools, and on the college level.

Requisites

Simple Requirements

Prerequisites: None

ENGL6020 - Seminar in Early British Lit

General

College/School
Arts and Sciences

Course Title
Seminar in Early British Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6080 - Sem in British Lit/1500-1650

General

College/School
Arts and Sciences

Course Title
Sem in British Lit/1500-1650

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6080

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6150 - Sem in British Lit/1650-1800

General

College/School
Arts and Sciences

Course Title
Sem in British Lit/1650-1800

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6290 - Sem in 19th Cent British Lit

General

College/School
Arts and Sciences

Course Title
Sem in 19th Cent British Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6290

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6350 - Sem/20th & 21st Cent Brit Lit

General

College/School
Arts and Sciences

Course Title
Sem/20th & 21st Cent Brit Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6400 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Intensive course work or directed individual research of a selected author, movement, or genre.

Requisites

Simple Requirements

Prerequisites: None

ENGL6520 - Sem in Early American Lit

General

College/School
Arts and Sciences

Course Title
Sem in Early American Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6590 - Sem in 19th Cent American Lit

General

College/School
Arts and Sciences

Course Title
Sem in 19th Cent American Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6590

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6640 - Sem/20th & 21st Cent Amer Lit

General

College/School
Arts and Sciences

Course Title
Sem/20th & 21st Cent Amer Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
A study of selected topics and authors of the period.

Requisites

Simple Requirements

Prerequisites: None

ENGL6710 - Creative Writing Workshop

General

College/School
Arts and Sciences

Course Title
Creative Writing Workshop

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Guided practice in the craft and art of writing creative texts in prose, poetry, and hybrid genres, contextualized by the study of work from a variety of sources, selected by the instructor. Course may be repeated provided the content is different each time.

Requisites

Simple Requirements

Prerequisite: Prior consent of instructor (for graduate students not in the Creative Writing concentration).

ENGL6720 - Writing Craft

General

College/School
Arts and Sciences

Course Title
Writing Craft

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGL

Course Number
6720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Exploration of authors, practices, and/or formal techniques associated with a writing craft element (s) or forms defined by the instructor, either within a single genre or across genres. Course may be repeated provided the content is different each time.

Requisites

Simple Requirements

Prerequisite: Prior consent of instructor (for graduate students not in the Creative Writing concentration).

ENGL6740 - Publishing Theory and Practice

General

College/School
Arts and Sciences

Course Title
Publishing Theory and Practice

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces publishing in concept and a profession in relationship to students' broader work in English studies, covering theories of the authorship and audience and the historical eras of literary and information production that have led to the modern book. Students will investigate intersections between publishing and their concentration and explore possible applications of their acquired knowledge.

Requisites

ENGL6850 - English Internship

General

College/School
Arts and Sciences

Course Title
English Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
8

Contact Hours
Max :
10

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Part-time employment or experiential, project-based learning in a professional setting, related to student academic and career goals. Students enrolled in the 6000-level course will be required to complete all work in the syllabus, including a research paper or other final project in consultation with the instructor applying theories learned in their graduate coursework to the completed internship.

Requisites

ENGL6890 - Directed Research

General

College/School
Arts and Sciences

Course Title
Directed Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ENGL

Course Number
6890

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Project paper for students in the nonthesis option.

Requisites

Simple Requirements

Prerequisites: None

ENGL6990 - Research & Thesis

General

College/School
Arts and Sciences

Course Title
Research & Thesis

Academic Level (Course Level)
Graduate

Course Subject Code
ENGL

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
9

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
9

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
9

Requisites

ENGR5250 - Technical Comm for Engrs

General

College/School
Engineering

Course Title
Technical Comm for Engrs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGR

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to technical communication in engineering professional and technical contexts. Emphasis on writing technical, professional, and academic documents, such as memos, emails, reports, scholarly articles, thesis/ dissertation and poster presentations; giving oral presentations; working on teams;p technical editing; and adapting technical information for different audiences.

Requisites

Simple Requirements

Prerequisites: None

ENGR5500 - Reliability and Quality Engineering

General

College/School
Engineering

Course Title
Reliability & Quality Engr

Academic Level (Course Level)
Graduate

Course Subject Code
ENGR

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: MATH 3470 or ENGR (CEE) 3720 or equivalent. Basic engineering and statistics principles as well as advanced tools focusing on design of experiments, statistical process control, and reliability engineering are presented. Theoretical and practical methods to improve the capability of systems to perform their designated functionalities, to predict the probability of their functioning without failures in certain environments for desired periods, to assess their maintainability, availability and safety based on sampled data, and to make decisions on corrective action and mitigation. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

ENGR5510 - Engineering Management

General

College/School
Engineering

Course Title
Engineering Management

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
ENGR

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Broad introduction to engineering management fundamentals as applied to scientific or technological organizations, including discipline definitions, management and leadership principles, basic organization structures, project management practices, and ethical decisions. In addition to completing the 4000-level course work, students enrolled in the 5000-level course will be required to complete additional assignments. These assignments will generally require a greater degree of synthesis and analysis than 4000-level assignments. These assignments demonstrate that students explore course material in greater depth. Commonly, students present their additional work to the class as a whole.

Requisites

Simple Requirements

Prerequisite: Senior Standing in Engineering or Graduate Standing.

ENGR6200 - Statistical Inference for Engr

General

College/School
Engineering

Course Title
Statistical Inference for Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGR

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Introductory calculus-based statistics course or consent of instructor. Decision making with hypothesis testing and confidence intervals. Multiple regression and stepwise regression. Design of one and multifactor experiments. 2k experiments with blocking and fractional factorials. Control charting of time series data.

ENGR6310 - Graduate Engineering Analysis I

General

College/School
Engineering

Course Title
Graduate Engr Analysis I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
ENGR

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integrated treatment of several advanced engineering analysis methods useful to beginning graduate students in engineering regardless of their intended specialty.

Requisites

Simple Requirements

Graduate standing in engineering.

Type
Prerequisite

Additional Comments:
Graduate standing in engineering.

ENGR6320 - Graduate Engineering Analysis II

General

College/School
Engineering

Course Title
Graduate Engr Analysis II

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
ENGR

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Continuation of ENGR 6310. Integrated treatment of several advanced engineering analysis methods useful to beginning graduate students in engineering regardless of their intended specialty.

Requisites

Simple Requirements

ENGR 6310 OR CONSENT OF INSTRUCTOR

Type
Prerequisite

Additional Comments:
ENGR 6310 or consent of instructor

ENGR6970 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGR

Course Number
6970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description

Prerequisite: Approval by department chairperson. Selected topics of current interest in graduate-level engineering that are not covered in existing graduate courses.

ENGR6980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENGR

Course Number
6980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description

Prerequisite: Approval by department chairperson. Individual or small-group study of topics of current interest in graduate-level engineering.

ENTR5500 - Innvtn/Entrprshp:Lean Lnchpad

General

College/School
Business

Course Title
Innvtn/Entrprshp:Lean Lnchpad

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ENTR

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Lean Launchpad focuses on innovating and evolving a product or service into a viable business model. The curriculum is structured around the Lean Launchpad program where student teams organize and develop their “business canvas.” Students may not receive credit for both ENTR 4500 and ENTR 5500.

Requisites

Simple Requirements

Prerequisites: Students registering for ENTR 4500 must have junior or senior standing or approval of the instructor.

ESLP5100 - ESL Methods & Materials for Pre K-12

General

College/School
Education and Human Sciences

Course Title
ESL M,M for Pre K-12

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESLP

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Introduction of foundational concepts in second or additional language acquisition, key language theories, and instructional strategies supporting English development in PreK–12 classrooms, with emphasis on methods and materials that promote listening, speaking, reading, and writing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better

A minimum grade of B is required to meet degree requirements for licensure candidates.

ESLP5200 - ESL Assmnt: Reading & Writing

General

College/School
Education and Human Sciences

Course Title
ESL Assmnt: Reading & Writing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESLP

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (5100). Assessment in second or additional language acquisition is examined through analysis of tools, procedures, and results, with emphasis on using assessment data to guide instructional decisions that support language development. A minimum grade of B is required to meet degree requirements for licensure candidates. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (ESLP 5100).

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better

ESLP5300 - Field Experience in ESL

General

College/School
Education and Human Sciences

Course Title
Field Experience in ESL

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESLP

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (5100) or consent of instructor. Teaching ESL in preK-12 under supervision of experienced ESL staff: writing objectives, planning lessons, materials evaluation, testing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program; ESLP 4100 (5100) or consent of instructor.

ESOL6100 - ESOL: Method/Matls for PreK-12

General

College/School
Education and Human Sciences

Course Title
ESOL: Method/Matls for PreK-12

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESOL

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Introduction of foundational concepts in second or additional language acquisition, key language theories, and instructional strategies that support English development in PreK–12 classrooms, with emphasis on integrating language objectives into content and literacy instruction. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better
A minimum grade of B is required to meet degree requirements for licensure candidates.

ESOL6200 - Assessment in PreK-12 Classrms

General

College/School
Education and Human Sciences

Course Title
Assessment in PreK-12 Classrms

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESOL

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ESOL 6100 and full admission to the Teacher Education Program. Assessment in second or additional language acquisition is examined through analysis of tools, procedures, and results, with emphasis on using assessment data to guide instructional decisions that support language development. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisites: ESOL 6100 and full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better

A minimum grade of B is required to meet degree requirements for licensure candidates.

ESOL6400 - Fndts/Lang for ESOL Eductrs

General

College/School
Education and Human Sciences

Course Title
Fndts/Lang for ESOL Eductrs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESOL

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Explores students' language acquisition and language development. Focuses on introduction of the language as a broad system in order to help future ESL educators to successfully navigate through language acquisition theories and foundations of linguistics. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

ESS5091 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESS

Course Number
5091

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Upper division level study in a specific topic related to Environmental & Sustainability Studies. Students receiving credit for ESS 5091 will have to do an extra assignment to warrant the graduate level credit. No more than a combined total of 6 hours of ESS 5091, 5092, and 5093 may be used for degree.

Requisites

ESS5092 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESS

Course Number
5092

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Upper division level study in a specific topic related to Environmental & Sustainability Studies. Course may be repeated if topic is different. No more than a combined total of 6 hours of ESS 5091, 5092, and 5093 may be used for degree.

Requisites

ESS5093 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
5093

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Upper division level study in a specific topic related to Environmental & Sustainability Studies. Course may be repeated if topic is different. No more than a combined total of 6 hours of ESS 5091, 5092, and 5093 may be used for degree.

Requisites

ESS5100 - National Parks/Protected Areas

General

College/School
Emerging and Integrative Studies

Course Title
National Parks/Protected Areas

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Development of the national park idea as a uniquely American idea that has spread to nationals all over the globe. The concept of national parks has led to other protected land designations including state and federal forest reserves, state parks, nature preserves and natural areas, and wildlife refuges and preserves. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ESS5110 - Human Dimensions of Natural Resource Management

General

College/School
Emerging and Integrative Studies

Course Title
Human Dimensions/Nat Res Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Human dimensions of natural resources management use social science perspectives for managing recreation uses and users on local, state and federally managed public lands. Concepts of carrying capacity, recreation user conflict management, and related topics are explored. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

ESS5300 - Environmental Mgmt System

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Mgmt System

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
5300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The course is a case study that presents the student witrh the techniques, technologies, regulations and strategies that define industrial pollution prevention.

Requisites

Simple Requirements

Prerequisites: None

ESS5800 - Field Based Learning

General

College/School
Emerging and Integrative Studies

Course Title
Field Based Learning

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
ESS

Course Number
5800

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
The Field Based Learning course allows the student to experience locations remote from Tennessee Tech campus, both domestically and internationally. Living and learning in locations distant from the university campus, allow for personal growth and expanding knowledge and skills, increasing group dynamics, and experiencing new locations and cultures.

Requisites

Simple Requirements

Prerequisite: Graduate standing or approval of Instructor (s)

ESS6000 - Environmental Law

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Law

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6000

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
An introductory graduate-level course on the development, purposes, and major tenets of environmental law, with particular focus on implementation and enforcement of the Clean Air Act, Clean Water Act, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Endangered Species Act (ESA), National Environmental Policy Act (NEPA), and Resources Conservation and Recovery Act (RCRA).

Requisites

Simple Requirements

Prerequisites: None

ESS6200 - Fundamentals of Environmental Spatial Analysis

General

College/School
Emerging and Integrative Studies

Course Title
Fndmntls of Env. Spatial Anlys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Students will learn the fundamental capabilities of GIS and the skills needed to address spatial questions, including visualization and analysis of spatial data patterns and relationships. Students will work independently and collaboratively to complete assignments and projects using GIS applications and technology commonly used in the field of environmental science, geographic information systems, and spatial analytics.

Requisites

No Requirements

ESS6300 - Remote Sensing and Field Applications of GIS

General

College/School
Emerging and Integrative Studies

Course Title
Remote Sensing Field Apps GIS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
In this course, students will navigate the technology related to the collection, processing and application of remote sensing and imagery data for use in Geospatial applications. Commonly used open-source datasets as well as student-collected data will be used throughout the assignments and course content. Students will work independently and collaboratively to complete projects and assignments using GIS applications and technology that are commonly used in the field of remote sensing, environmental science, geographic information systems and spatial analytics.

Requisites

Simple Requirements

Prerequisite: GEOG4510, ESS 6200, or other experience in GIS courses to provide adequate background knowledge for the course.

ESS6510 - Programming GIS

General

College/School
Emerging and Integrative Studies

Course Title
Programming GIS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Python is a free and easy to learn language, tightly integrated into ArcGIS 10. This course introduces students to Python scripting to increase productivity and management of GIS data and adding more functions to the projects.

Requisites

Simple Requirements

Prerequisites: None

ESS6520 - Env Informatics Python Apps

General

College/School
Emerging and Integrative Studies

Course Title
Env Informatics Python Apps

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Programming GIS, or consent from instructor. Data analysis pre-processing, visualization, classification, and statistical functions from Python packages and machine learning algorithms applied to environmental data. Students will gain professional experience working with real-world environmental data.

Requisites

Simple Requirements

Prerequisite: ESS6510 Programming GIS.

ESS6800 - Professional Development

General

College/School
Emerging and Integrative Studies

Course Title
Professional Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESS

Course Number
6800

Credit Hours

Credit Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Prerequisite - Graduate classification and consent of instructor.
A variety of guest speakers and the instructor will present practical skills for professional development such as networking, résumés and interviews, career options, stress management, work productivity, ethical conduct, peer review, written and oral communication, leadership and group dynamics, and public outreach. Students will discuss additional topics such as graduate school success, scientific writing, and job interviews. Class is taught in tandem with EVS 7800 with PhD students, who will be learning additional topics relevant to doctoral students.

Requisites

Simple Requirements

Prerequisite: Graduate classification and consent of instructor.

ESS6900 - Professional Internship

General

College/School
Emerging and Integrative Studies

Course Title
Professional Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESS

Course Number
6900

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Graduate-level internship placement with a professional organization and supervisor, recommended to be taken after 12 hours of graduate coursework have been completed. In consultation with their supervisor and the course instructor, students will develop goals and keep a daily log of their work experience. A final written report and a final oral presentation are not required. Designed for students in thesis option in all concentrations of the Professional Science Master's degree program. Students in other graduate programs can take the course with instructor permission. May be taken for 1.0, 2.0, or 3.0 credit hours depending on the amount of work required by the internship; however, 3.0 credit hours of ESS 6900 are required for the PSM degree requirements.

Requisites

Simple Requirements

Prerequisite: ESS 6900 is designed for students in the thesis option of the Professional Science Master's degree program, but other graduate students may enroll with instructor permission. Twelve (12) credit hours of graduate coursework should be completed by the time the ESS 6900 course begins.

ESS6910 - Capstone Internship

General

College/School
Emerging and Integrative Studies

Course Title
Capstone Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6910

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
ESS 6910 – Capstone Internship. Credit 1-3. May be taken more than once not to exceed a total of 3 credit hours. Prerequisite: At least 15 completed credit hours of PSM courses approved by graduate advisory committee. The capstone internship is the experiential component designed for non-thesis students in all concentrations of the Professional Science Master's degree program. It will include a capstone project supervised by faculty and employers, evaluated or graded by faculty, and typically developed with an employer, which integrates the practical application of scientific and professional knowledge, behavior and skills. The internship provides an opportunity for students to demonstrate proficiency in written and oral communications by producing a final report and delivering a seminar presentation.

Requisites

Simple Requirements

Prerequisite: At least 15 completed credit hours of PSM courses approved by graduate advisory committee.

ESS6970 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ESS

Course Number
6970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
8

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lab Hours

Lab Hours Min:
2

Lab Hours Max:
8

Course Description
Prerequisite: Consent of instructor. Special study in an approved field under the supervision of a member of the graduate faculty as approved by the director of the school. May be taken more than once for a maximum total of credit hours.

ESS6990 - Research and Thesis

General

College/School
Emerging and Integrative Studies

Course Title
Research and Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ESS

Course Number
6990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Environmental-related research and thesis as directed by graduate faculty advisor. During their research and thesis hours, students will make progress on conducting research, writing a thesis, and preparing for a thesis defense and seminar presentation.

Requisites

No Requirements

EVS7800 - Prof Dev for Doctoral Students

General

College/School
Emerging and Integrative Studies

Course Title
Prof Dev for Doctoral Students

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVS

Course Number
7800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate classification and consent of instructor. Practical skills for professional development such as networking, resumés and interviews, career options, stress management, work productivity, ethical conduct, peer review, written and oral communication, leadership and group dynamics, and public outreach. Additional doctoral-level topics such as comprehensive exams, dissertation defenses, teaching/research philosophies, and faculty interviews will also be covered.

Requisites

Simple Requirements

Prerequisite: Graduate classification and consent of instructor.

EVS7810 - Inst Methods for Adults

General

College/School
Emerging and Integrative Studies

Course Title
Inst Methods for Adults

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVS

Course Number
7810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and practice of adult education with an emphasis on subject areas of agriculture, natural resources and environmental sciences. The course will address teaching-learning methods in formal and non-formal instructional programs for adult learners.

Requisites

Simple Requirements

Prerequisite: Graduate classification and consent of instructor.

EVS7900 - Sci Writing/Grantsmanship

General

College/School
Emerging and Integrative Studies

Course Title
Sci Writing/Grantsmanship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVS

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The overall goal of this course is to help students acquire writing skills and Gransmanship skills that will help them be competitive for research funds and be successful in publishing research papers.

Requisites

Simple Requirements

Prerequisite: Full standing in Environmental Sciences Ph.D. program or consent of instructor.

EVS7910 - Environmental Science Seminar

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Science Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVS

Course Number
7910

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Discussions and reports on the current literature and research in environmental science.

Requisites

Simple Requirements

Prerequisites: None

EVSA6010 - Environmental Agriculture

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Agriculture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSA

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Provides a summary of the actual and/or relative environmental impacts of existing and emerging agricultural production technologies.

Requisites

Simple Requirements

Prerequisites: None

EVSA6100 - Environmental Agriculture

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Agriculture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSA

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

EVSA7010 - Crop Environmental Interaction

General

College/School
Emerging and Integrative Studies

Course Title
Crop Environmental Interaction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSA

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Understanding of how crops interact with the major environmental factors.

Requisites

Simple Requirements

Prerequisites: None

EVSA7030 - One Health: Principles & Appl.

General

College/School
Emerging and Integrative Studies

Course Title
One Health: Principles & Appl.

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSA

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on understanding and appreciation of the links among human, animal, and ecosystem health. Moreover, the importance of and commitment to working together to address health challenges will also be discussed. The need for collaboration in areas of education/teaching, research and community service both locally, nationally, and globally will be highlighted, thus providing the foundation for achieving One Health goals and objectives.

Requisites

Simple Requirements

Prerequisite: BIOL1020 Diversity of Life/ANS1200 Introductory Animal Science and BIOL3200 General Microbiology and instructor consent.

EVSA7970 - Topics in Environmental Ag

General

College/School
Emerging and Integrative Studies

Course Title
Topics in Environmental Ag

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSA

Course Number
7970

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Timely topics in environmental agriculture. Course may be taken for credit more than once for a maximum of eight (8) credit hours.

Requisites

Simple Requirements

Prerequisite: Full standing in the Environmental Sciences Ph.D. program or consent of instructor.

EVSA7990 - Research and Dissertation

General

College/School
Emerging and Integrative Studies

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
EVSA

Course Number
7990

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
9

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
9

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
9

Course Description
Research and Dissertation

Requisites

EVSB6010 - Environmental Biology

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Biological concepts, community and ecosystem structure and function, population biology, water pollution, land and wildlife resources, endangered and threatened species, resource management, human impact, and environmental economics. This course cannot be taken for credit toward graduation by students with a degree or concentration in biology or wildlife and fisheries sciences.

Requisites

EVSB7050 - Ecological Risk Assessment

General

College/School
Emerging and Integrative Studies

Course Title
Ecological Risk Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
2

Course Description
Prerequisite: BIOL 6060 and EVSC 6010. Assessment of ecological risk associated with new chemicals and effluents, existing chemicals and mixtures of chemicals, and human actions.

Requisites

EVSB7060 - Ecological Toxicology

General

College/School
Emerging and Integrative Studies

Course Title
Ecological Toxicology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7060

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: BIOL 6060, EVSC 6010, or consent of instructor. A study of the mechanisms of toxicity in terrestrial and aquatic ecosystems, including the measurement of response, uptake, metabolism, and excretion of toxicants; design and interpretation of toxicity tests, hazard evaluation, risk assessment, and toxics reduction plans; fate and transport processes and advanced approaches in automated computer-assisted monitoring will be evaluated.

Requisites

EVSB7110 - Env Approaches/Fisheries Mgmt

General

College/School
Emerging and Integrative Studies

Course Title
Env Approaches/Fisheries Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7110

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: WFS 5710 or BIOL 6630. An in-depth analysis of current fisheries management practices assessed from the ecosystem perspective.

Requisites

EVSB7120 - Endangered Species Biology

General

College/School
Emerging and Integrative Studies

Course Title
Endangered Species Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7120

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
The biology, ecology, management, and recovery of threatened and endangered species.

Requisites

Simple Requirements

Prerequisites: None

EVSB7130 - Wetlands Ecology

General

College/School
Emerging and Integrative Studies

Course Title
Wetlands Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7130

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Ecology and legal issues concerning the management of wetland habitats and species.

Requisites

EVSB7140 - Wildlife-Fisheries Nutrition

General

College/School
Emerging and Integrative Studies

Course Title
Wildlife-Fisheries Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7140

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
The nutritional and foraging ecology of wild fish, amphibians, reptiles, birds, and mammals.

Requisites

EVSB7150 - Population-Community Ecology

General

College/School
Emerging and Integrative Studies

Course Title
Population-Community Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: BIOL 3130 or WFS 3130. Empirical and theoretical concepts in ecology at the population and community levels, including population growth and regulation, species interactions, community assembly and dynamics, metapopulation ecology, and landscape ecology.

Requisites

EVSB7210 - New/Re-emer Env Hum Pathogens

General

College/School
Emerging and Integrative Studies

Course Title
New/Re-emer Env Hum Pathogens

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: 7 hours of microbiology courses or equivalent. Aspects of emerging human pathogens, including case histories of outbreaks, methods of detection in food and water, and techniques for enumeration and identification.

Requisites

EVSB7220 - Molecular Ecology/Evolutn Sem

General

College/School
Emerging and Integrative Studies

Course Title
Molecular Ecology/Evolutn Sem

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7220

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Prerequisites: BIOL 3130 and BIOL 4150. Review of current literature concerning application of modern molecular techniques to solve ecological and evolutionary questions. Course may be taken up to 3 times for credit.

Requisites

EVSB7230 - Molecular Ecology & Evolution

General

College/School
Emerging and Integrative Studies

Course Title
Molecular Ecology & Evolution

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7230

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Role of molecular techniques in the study of ecology and evolution, including techniques used to study phylogeny, microorganism detection, population structure, gene flow, and kinship.

Requisites

EVSB7240 - Computers & Molecular Ecology

General

College/School
Emerging and Integrative Studies

Course Title
Computers & Molecular Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
5

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
3

Course Description
Prerequisite: EVSB 7230 (Molecular Ecology and Evolution). The use and application of computer programs and Internet databases for studying molecular ecology and evolution.

Requisites

EVSB7310 - Plant Ecology

General

College/School
Emerging and Integrative Studies

Course Title
Plant Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7310

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
3

Lab Hours

Lab Hours Min:
3

Course Description
Interrelationships between plants and their environment and evaluation of community structure.

Requisites

EVSB7320 - Aquatic Botany

General

College/School
Emerging and Integrative Studies

Course Title
Aquatic Botany

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7320

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
3

Lab Hours

Lab Hours Min:
3

Course Description
Anatomy, ecology, morphology, physiology, reproductive biology, evolution, and taxonomy/systematics of aquatic plants.

Requisites

EVSB7900 - Research Design/Env Bio

General

College/School
Emerging and Integrative Studies

Course Title
Research Design/Env Bio

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. Literature investigation and development of an original research proposal outside the student's doctoral dissertation research.

Requisites

EVSB7970 - Topics/Environmental Biology

General

College/School
Emerging and Integrative Studies

Course Title
Topics/Environmental Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
8

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lab Hours

Lab Hours Min:
2

Lab Hours Max:
8

Course Description
Prerequisite: Consent of instructor. Special study in an approved field under the supervision of a member of the graduate faculty. Course may be taken for credit more than once for a maximum of 6 hours of credit.

Requisites

EVSB7990 - Research & Dissertation

General

College/School
Emerging and Integrative Studies

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSB

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
Research and Dissertation

Requisites

EVSC6010 - Environmental Chemistry

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSC

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This is a broad-based course applying the fundamentals of chemistry to the environment. This course cannot be taken for credit toward graduation by students with a concentration in chemistry.

Requisites

Simple Requirements

Prerequisite: Graduate standing in environmental sciences; one year of chemistry.

EVSC7110 - Water,Soil & Air Chem-Part I

General

College/School
Emerging and Integrative Studies

Course Title
Water,Soil & Air Chem-Part I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSC

Course Number
7110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Composition of waters and soils; kinetics and thermodynamics of environmental chemical and physical processes in waters and soils. Equilibrium modeling exercises are employed to prepare students for professional activities, and to reinforce course material.

Requisites

Simple Requirements

Prerequisite: CHEM5520 Instrumental Analysis I, CHEM5710 Environmental Chemistry, or consent of instructor.

EVSC7120 - Water, Soil & Air Chem-Part II

General

College/School
Emerging and Integrative Studies

Course Title
Water, Soil & Air Chem-Part II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSC

Course Number
7120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Electrochemistry and solubility of soil minerals. Kinetics, reaction dynamics, photochemistry, and heterogeneous phase chemistry of the troposphere and stratosphere. Students will become familiar with watershed modeling and the use of geographical information systems in environmental chemistry.

Requisites

Simple Requirements

Prerequisite: EVSC7110 Water,Soil & Air Chem-Part I or consent of instructor.

EVSC7210 - Organic Chem/Env

General

College/School
Emerging and Integrative Studies

Course Title
Organic Chem/Env

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSC

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to specific organic compounds, their physical and chemical properties, chemical and photochemical transformation reactions and mechanisms in the environment, and literature case studies effectively used in their decontamination.

Requisites

Simple Requirements

Prerequisite: CHEM3520 Physical Chemistry II and 6210 or consent of instructor.

EVSC7310 - Environmental Forensics

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Forensics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSC

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of environmental forensic science, including transport and fate of chemicals, changes in pollutants as they interact with the environment, linkages between pollutants and their sources, and legal considerations. Faculty lectures along with student presentations and discussion of primary literature will be the primary instructional approaches.

Requisites

Simple Requirements

Prerequisites: None

EVSC7900 - Research Design/Env Chem

General

College/School
Emerging and Integrative Studies

Course Title
Research Design/Env Chem

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSC

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full Standing in Ph.D. program in environmental sciences, completion of core courses, and consent of research advisory committee. Literature investigation of a current area of environmental research leading to the development of a research proposal on a topic not related to student¿s doctoral dissertation research.

Requisites

EVSC7970 - Special Topics/Env Chem

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics/Env Chem

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSC

Course Number
7970

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Lab Hours

Lab Hours Min:
1

Lab Hours Max:
3

Course Description
Prerequisite: Full Standing in Ph.D. program in environmental sciences or consent of instructor. Timely topics in environmental chemistry. Course may be taken for credit more than once.

Requisites

EVSC7990 - Research & Dissertation

General

College/School
Emerging and Integrative Studies

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EVSC

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
Research and Dissertation

Requisites

EVSG6010 - Environmental Geology

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Geology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSG

Course Number
6010

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Introduction to geology and the application of geologic knowledge to issues and potential solutions of problems arising from the interaction of human activities and natural earth processes.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

EVSG7970 - Topics in Environmental Geos

General

College/School
Emerging and Integrative Studies

Course Title
Topics in Environmental Geos

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
EVSG

Course Number
7970

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Timely topics in environmental geosciences. Course may be taken for credit more than once for a maximum of eight (8) credit hours.

Requisites

Simple Requirements

Prerequisite: Full standing in the Environmental Sciences Ph.D. program or consent of instructor.

EVSG7990 - Research and Dissertation

General

College/School
Emerging and Integrative Studies

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
EVSG

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
Research and Dissertation

Requisites

EVSI7970 - Topics in Environ Integr Rsrch

General

College/School
Emerging and Integrative Studies

Course Title
Topics in Environ Integr Rsrch

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
EVSI

Course Number
7970

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Timely topics in environmental integrated research. Course may be taken for credit more than once for a maximum of eight (8) credit hours.

Requisites

Simple Requirements

Prerequisite: Full standing in the Environmental Sciences Ph.D. program or consent of instructor.

EVSI7990 - Research and Dissertation

General

College/School
Emerging and Integrative Studies

Course Title
Research and Dissertation

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
EVSI

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
Research and Dissertation

Requisites

EVSS6010 - Environmental Social Policy

General

College/School
Emerging and Integrative Studies

Course Title
Environmental Social Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EVSS

Course Number
6010

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Social, political, legal and scientific issues that influence environmental policy decisions.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

EXPW5042 - Health Promotion

General

College/School
Education and Human Sciences

Course Title
Health Promotion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5042

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This Course is an evaluation of various physical activity behavior change models, assessment of health promotion programs and evaluation standards. Topics include: health status; historical and current issues in health promotion; philosophical foundations of health promotion; intrapersonal health behavior change theories; CHES; work settings for health educators; and ethics in health promotion.
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

EXPW5440 - Physiology of Exercise

General

College/School
Education and Human Sciences

Course Title
Physiology of Exercise

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: BIOL 2350 or BIOL 2010. During this class, students will examine the physiological effects of exercise, sports, and other stresses on the various systems of the human body. Application of principles to physical fitness, physical education, and athletics is included. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

Requisites

Simple Requirements

Prerequisite: BIOL 2350 or BIOL 2010.

EXPW5500 - Persp on PE Fitness/Sports Pgm

General

College/School
Education and Human Sciences

Course Title
Persp on PE Fitness/Sports Pgm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5500

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
An introduction and summary of the body of knowledge and concepts included in the field of physical education, fitness and sport, including the history, people and events, and programs that have led to the current status of these fields. A perspective of the trends in education and their impact on physical education.

EXPW5520 - Adapted Phys Activity-Sport

General

College/School
Education and Human Sciences

Course Title
Adapted Phys Activity-Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5520

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
The purpose of this course is to guide students in developing knowledge of current trends and concepts in adapted physical education and sport as well as examining various services, programs and requirements for individuals with disabilities. By the end of the course students should display acceptable levels of confidence in screening children who may need adapted physical education/ activity as well as working with and evaluating special needs children. Design and implementation of adapted physical activity & sport programs to meet unique needs of individuals will also be required. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

EXPW5730 - Assmnt & Eval in Exerc Sci

General

College/School
Education and Human Sciences

Course Title
Assmnt & Eval in Exerc Sci

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The purpose of this course is to direct students to select/construct, administer, score, and
evaluate tests specific to human performance. Students will be exposed to standardized tests and
will explore the uses and development of authentic tests. Each class period consists of lecture and
administration of assessments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus

EXPW5850 - Workshop-Health and/or Phys Ed

General

College/School
Education and Human Sciences

Course Title
Workshop-Health and/or Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Laboratory approach providing opportunities for experienced school and nonschool personnel to study in-depth Health and/or Physical Education problems.

EXPW5940 - Fitness & Wellness

General

College/School
Education and Human Sciences

Course Title
Fitness & Wellness

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
5940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic principles of wellness promotion through exercise and nutrition. Assessment and intervention strategies are included.

EXPW6042 - Wellness Promotion

General

College/School
Education and Human Sciences

Course Title
Wellness Promotion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6042

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of physical activity behavior change models and development/assessment of health promotion programs.

EXPW6100 - Instruction in Phys Ed

General

College/School
Education and Human Sciences

Course Title
Instruction in Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Restricted to EXPW graduate students working toward teacher license. Corequisite: EXPW 6595 Field Experience. Principles of instruction and application of developmentally appropriate instructional strategies in school-based physical activity settings.

Requisites

Simple Requirements

Enrolled in EXPW6595

Type
Corequisite

Enrolled in Course EXPW6595

Enroll in the following Courses:

- EXPW6595 - Fld Exp in Physical Education

EXPW6140 - Adapted Phys Ed & Sport

General

College/School
Education and Human Sciences

Course Title
Adapted Phys Ed & Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced assessment techniques, plus strategies for adapting physical education and sports wellness for persons with disabilities.

EXPW6210 - Curriculum Design/Phys Ed

General

College/School
Education and Human Sciences

Course Title
Curriculum Design/Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Current trends, practices, and theories within the discipline of Health and Physical Education with emphasis on research, evaluation, development, organizing of instructional materials.

EXPW6230 - Seminar in Exercise Science

General

College/School
Education and Human Sciences

Course Title
Seminar in Exercise Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course is designed as an introductory course that will look closely at the processes and procedures of being a successful student in the on-line master's program in Exercise Science. Orientation to the program will be included. An advanced program with multiple concentration choices in the Exercise Science field is challenging but should not present surprises to the students. This class is required in the first semester of study, and will provide needed and relevant information that will serve the student well in the prospective concentrations. Topics include: Being an on-line student, identifying your strengths, On-line learning and navigating the Ilearn system, APA requirements and writing in the APA format, Turn-it-in, using electronic libraries, and more.

EXPW6240 - Assessment in Phys Ed

General

College/School
Education and Human Sciences

Course Title
Assessment in Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Application of measurement and evaluation in sport, physical education, and wellness.

EXPW6250 - Applied Motor Dev/Motor Learn

General

College/School
Education and Human Sciences

Course Title
Applied Motor Dev/Motor Learn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Application of concepts concerning lifelong motor development and motor learning to programs of sport and physical education.

EXPW6350 - Inst Strategies/Phys Ed

General

College/School
Education and Human Sciences

Course Title
Inst Strategies/Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of research and advanced techniques for teaching elementary and middle school physical education.

EXPW6370 - Instr Stat/Lifetime Wellness

General

College/School
Education and Human Sciences

Course Title
Instr Stat/Lifetime Wellness

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of research and advanced techniques for teaching lifetime wellness.

EXPW6440 - Physiology of Exercise

General

College/School
Education and Human Sciences

Course Title
Physiology of Exercise

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Acute and chronic effects of physical activity on body systems with reference to exercise evaluation and prescription.

EXPW6450 - Tch Middle School Phys Ed

General

College/School
Education and Human Sciences

Course Title
Tch Middle School Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Designed to assist teachers in understanding middle school students and their unique needs, to identify and define the need for quality physical education programs in middle schools, and to prepare teachers for the inclusive duties of a teacher in a quality middle school physical education program.

EXPW6510 - Research Methods

General

College/School
Education and Human Sciences

Course Title
Research Methods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: EXPW 6240. Assessment in Exercise Science The purpose of this course is to prepare students to search, cite, and reference research articles properly. Students will learn to write correct research hypotheses and be able to properly cite information using the APA manual throughout the remaining graduate curriculum. Students will also be required to select a topic appropriate for their research project.

Requisites

Simple Requirements

Prerequisite: EXPW 6240

EXPW6520 - Research Projects

General

College/School
Education and Human Sciences

Course Title
Research Projects

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: EXPW 6510 - Research Methods Examination of current literature in area of study in sport, physical education, and wellness, resulting in an original piece of work. Emphasis will be placed on the evaluation of best practices in a clinical setting.

Requisites

Simple Requirements

Prerequisite: EXPW 6510.

EXPW6530 - Qualitative Research in Ex Sci

General

College/School
Education and Human Sciences

Course Title
Qualitative Research in Ex Sci

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course focuses on research in exercise science, sport, health and related fields from qualitative perspectives. Graduate students are introduced to the major historical and contemporary paradigms structuring and influencing qualitative research, moving from historical and theoretical backgrounds to research design, methods of data collections and analysis, interpretation, ethics, validity and decisions for writing. Students will identify a problem in their area of interest related to exercise science and design a qualitative research proposal.

EXPW6550 - Capstone Project

General

College/School
Education and Human Sciences

Course Title
Capstone Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description

This capstone course provides the opportunity for students to culminate all aspects of this graduate program through development of a final project based on concentration course content and either quantitative or qualitative research method. Student will present the final project to classmates and professor (oral defense).

EXPW6590 - Field Experiences

General

College/School
Education and Human Sciences

Course Title
Field Experiences

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6590

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Practical field experience in student's major area of emphasis.

EXPW6595 - Fld Exp in Physical Education

General

College/School
Education and Human Sciences

Course Title
Fld Exp in Physical Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6595

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Course Description
Prerequisite: Admission to Teacher Education, Completion of EXPW 6210, EXPW 6350 and EXPW 6450. Co-requisite: EXPW 6100 and EXPW 6881. This field experience will be for students who are seeking a teaching license only. Admission is by permit only from the instructor. Taken in conjunction with EXPW 6100 - Instruction in Physical Education and EXPW 6881 - Professional Seminar in Physical Education, the student will participate in a minimum of 72 hours in a practical classroom setting. During this field experience, the student will observe in at least one high school, one middle school and one elementary school physical education class and then choose placement in one of the areas to complete the practicum/methods of teaching experience. This is preparation for student teaching and success in the EdTPA assessment process. Must make a B or better to continue to student teaching.

Requisites

No Requirements

EXPW6600 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6600

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Special topics related to pedagogy in physical education and wellness.

EXPW6700 - Independent Study

General

College/School
Education and Human Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6700

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Pre-requisite: Master of Arts students only. Topics to be assigned and approved by the instructor and advisor.

EXPW6710 - Leadership/Management in Sport

General

College/School
Education and Human Sciences

Course Title
Leadership/Management in Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
By the end of the semester, the student should be able to describe theoretical concepts in management and decision-making; describe concepts of strategic planning; describe the benefits and limitations of various leadership styles; identify professional and collegiate sport governance entities; and articulate principles in human resource management, conflict resolution, and negotiation.

EXPW6720 - Lgl/Ethcl/Rsk Mgmt Issues-Sprt

General

College/School
Education and Human Sciences

Course Title
Lgl/Ethcl/Rsk Mgmt Issues-Sprt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
By the end of the semester, the student should be able to: describe the impact of negligence in sport; discuss methods to reduce organizational liability and protect consumers; analyze components of negligence as they apply to sport and recreation programs; and, articulate action plans for safety.

EXPW6730 - Admin/Supervision of Sport

General

College/School
Education and Human Sciences

Course Title
Admin/Supervision of Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course is designed to examine issues faced by administrators, athletic directors, coaches and recretational professionals. The students will learn effective decision-making skills specific to planning, organizing and staffing in sport and leisure settings. Content includes budgeting and management specific to facilities, equipment and personnel.

EXPW6740 - Sport Marketing & Promotions

General

College/School
Education and Human Sciences

Course Title
Sport Marketing & Promotions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

By the end of the semester, the student should be able to: describe the marketing mix as it relates to sport; discuss branding in sport; analyze consumer behavior; evaluate market segmentation in sport; and, articulate product, price and sales in sport.

EXPW6750 - Dsgn/Mgmt-Leisure/Sprt Fclties

General

College/School
Education and Human Sciences

Course Title
Dsgn/Mgmt-Leisure/Sprt Fclties

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sport facilities are changing at a rapid pace. Sport facility management represents one of the fastest growth areas in the sport industry. With new arenas, stadiums, health clubs, convention centers, and other facilities popping up all over the nation, numerous job opportunities are available in this discipline. Even in these tough economic times when some jobs are harder to find, there is still a signficant need for properly trained sport facility managers. This class will cover numerous issues from construction-related concerns to marketing facilities, naming rights, and concession concerns. Also covered will be topics related to the facility-management side of the industry, with special attention paid to back-house operations such as water, heating, cooling, and related activities. This is a comprehensive course focusing on applied rather than theoretical knowledge. To learn some of the hands-on elements of running a facility, sutdents will visit a variety of facilities such as the TTU's campus recreation center, Putnam County YMCA, Averitt's DI complex, The Bridgestone Arena, and LP Field in Nashville.

EXPW6760 - Internship - Sports Management

General

College/School
Education and Human Sciences

Course Title
Internship - Sports Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6760

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The internship is intended to provide students with work skills, knowledge and practices in the world of managing sports. Students will be placed in a sport-management environment to successfully complete 120 hours.

EXPW6810 - Skill Acquisition in Sport

General

College/School
Education and Human Sciences

Course Title
Skill Acquisition in Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6810

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Principles, practices, and theories of motor learning as related to sport. Practical applications of instruction and feedback, organizing training sessions, developing elite motor skills, and the theories supporting the acquisition of sports skills are included.

EXPW6820 - Sport Physiology

General

College/School
Education and Human Sciences

Course Title
Sport Physiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6820

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Physiological elements of sport and performance. Examination and analysis of the inner workings of various energy systems used in sport. Extensive study of demands of performance variables found in sport and how these demands stimulate a plethora of responses at both global and local tissue and hormonal levels. The effects of biomechanics and positioning on performance outcomes will be observed and analyzed.

EXPW6830 - Recovery & Performance in Sport

General

College/School
Education and Human Sciences

Course Title
Recovery & Perf in Sport

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6830

Credit Hours

Credit Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: EXPW 4440. Because recovery methods play a crucial role in optimizing sport and exercise performance, and are essential for promoting muscle repair, preventing injuries, restoring energy, maintaining mental freshness, reducing inflammation, balancing hormones, enabling adaptation, ensuring career sustainability, and fostering training consistency, examination and analysis of such methods will be performed.

Requisites

Simple Requirements

Prerequisite: EXPW 4440.

EXPW6840 - Scientific Principles of Strength & Conditioning

General

College/School
Education and Human Sciences

Course Title
Sci Prin of Strength & Cond

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6840

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: BIOL 2010 and BIOL 2020 (Anatomy & Physiology I & II). A review of anatomy and physiology; biomechanics; bioenergetics and metabolism, neuroendocrine physiology; physiological adaptations; anatomical, physiological and biomechanical differences of athletes, and psychological techniques. Utilization and application of exercise progression from novice to complex movements, basic biomechanical concepts, points of performance, mobility requirements, motor control, and teaching methods will be covered.

Requisites

Simple Requirements

Prerequisites: BIOL 2010 and BIOL 2020.

EXPW6850 - Internship in Sport Performance

General

College/School
Education and Human Sciences

Course Title
Internship in Sport Perf

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
6850

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Intended to provide students with work skills, knowledge, and practices in sport performance. Must complete 120 hours in an approved strength and conditioning environment.

EXPW6880 - Student Teaching in Phys Ed

General

College/School
Education and Human Sciences

Course Title
Student Teaching in Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6880

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Prerequisite: Admission to Teacher Education and completion of EXPW 6100, EXPW 6595 and EXPW 6881 with a grade of B or better to continue. This course is the clinical experience for pre-service teachers to work in a classroom setting teaching physical education . This is a full-time experience for 1 semester in which the candidate must plan and teach age- and developmentally appropriate standards-based lessons. In addition, the candidate will complete the EdTPA assessment to be submitted to Pearson for scoring during this semester/class.

Requisites

Simple Requirements

Prerequisite: Admission to Teacher Education and completion of EXPW6100 Instruction in Phys Ed, EXPW6595 Fld Exp in Physical Education, and EXPW6881 Prof Seminar in Physical Edu with a grade of B or better to continue.

EXPW6881 - Prof Seminar in Physical Edu

General

College/School
Education and Human Sciences

Course Title
Prof Seminar in Physical Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6881

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Prerequisite: Admission to Teacher Education. Co-requisite: EXPW 6100 and EXPW 6595. This seminar class is designed to assist the pre-service teacher in understanding the EdTPA process as well as provide practice in writing and being evaluated in the EdTPA model. Taken in conjunction with EXPW 6100 and 6595 provides material and opportunity for the candidate to practice the EdTPA assessment. Students may be asked to travel to the main campus during this semester.

Requisites

No Requirements

EXPW6990 - Research & Thesis

General

College/School
Education and Human Sciences

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
EXPW

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
6

EXPW7000 - Current Issues in EXPW/EDUH

General

College/School
Education and Human Sciences

Course Title
Current Issues in EXPW/EDUH

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
7000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The content of this course will vary according to current research and publications in areas of exercise science, health behavior, and wellness education related to exercise and physical activity.

EXPW7010 - Pedagogical Theory of Phys Ed

General

College/School
Education and Human Sciences

Course Title
Pedagogical Theory of Phys Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will cover interpretation and critical analysis of research on selected topics related to teaching and instruction in physical education.

EXPW7020 - Adv Tchng/Ex Sci-Hlth Rl Flds

General

College/School
Education and Human Sciences

Course Title
Adv Tchng/Ex Sci-Hlth Rl Flds

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to provide knowledge, opportunity, and support for quality teaching in exercise science and related health fields. Methodology of teaching in higher education will be explored.

EXPW7600 - Special Topics in Exercise Sci

General

College/School
Education and Human Sciences

Course Title
Special Topics in Exercise Sci

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
7600

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
This course is designed to provide students with the opportunity to review literature on topics they are interested in and to write a literature review. The intent is for the candidate to expand their knowledge base, gain factual information about topics of interest, and identify options for future research projects.

EXPW7610 - Ind Study in EXPW/EDUH

General

College/School
Education and Human Sciences

Course Title
Ind Study in EXPW/EDUH

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
EXPW

Course Number
7610

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description
Topics to be assigned and approved by instructor and advisor.

FIN5020 - Basic Finance

General

College/School
Business

Course Title
Basic Finance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to the concepts and tools needed for basic financial decision-making in a corporate environment.

Requisites

FIN6020 - Financial Management

General

College/School
Business

Course Title
Financial Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case study course surveying tools, techniques, and applications of business financial management.

Requisites

FIN6220 - Corporate Risk Management

General

College/School
Business

Course Title
Corporate Risk Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

FIN6470 - Investment Challenge I

General

College/School
Business

Course Title
Investment Challenge I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced portfolio theory through actual management of a real investment portfolio.

Requisites

Simple Requirements

Prerequisites: MBA 6020 and permission of instructor.

FIN6480 - Investment Challenge II

General

College/School
Business

Course Title
Investment Challenge II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6480

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced portfolio theory through actual management of a real investment portfolio.

Requisites

Simple Requirements

Prerequisites: MBA 6020 and permission of instructor.

FIN6710 - Perspectives/Risk & Insurance

General

College/School
Business

Course Title
Perspectives/Risk & Insurance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
FIN 6710 examines the economic principles underpinning risk and insurance and introduces key risk and insurance concepts and practices. The causes of change in risk management and insurance are examined through exploration of relevant physical, technological, cultural, regulatory, and other environmental perspectives.

Requisites

Simple Requirements

Prerequisites: None

FIN6720 - Corporate Risk Management

General

College/School
Business

Course Title
Corporate Risk Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
FIN

Course Number
6720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of the risk management process, including risk control and risk financing techniques, to risk management problems in business. Emphasizes risk identification and evaluation, together with alternative methods of risk control and risk financing techniques.

Requisites

Simple Requirements

Prerequisites: None

FIN6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

FIN6920 - Banking and Financial Services

General

College/School
Business

Course Title
Banking and Financial Services

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FIN

Course Number
6920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course is an interactive seminar designed to study and discuss critical issues facing the financial services industry. Topics include the economic, regulatory competitive environment and the wide range of services provided by today's banking institutions. The course will address economic policy, globalization, investment and commercial banking, insurance, pension plans, risk management, and technology. financial analysis and leadership issues will also be addressed in course lectures, online discussions and within the context of the competitive and interactive Stanford Bank Simulation.

Requisites

Simple Requirements

Prerequisites: None

FOED6020 - Perspectives-American Edu

General

College/School
Education and Human Sciences

Course Title
Perspectives-American Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FOED

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Study of theory, practice, and reform in American Education: a sociological and historical perspective.

FOED6320 - Educational App of Technology

General

College/School
Education and Human Sciences

Course Title
Educational App of Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FOED

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Review and application of basic computer competencies as related to a variety of educational tasks.

FOED6820 - Applied Educational Assessment

General

College/School
Education and Human Sciences

Course Title
Applied Educational Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FOED

Course Number
6820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course considers statistical techniques for describing and summarizing numerical data for educational research studies, and interpretation/evaluation of educational assessment data. Applied descriptive and inferential statistics, classroom test construction and improvement, and standardized testing applications will be considered within the context of the classroom and school improvement.

FOED6840 - Field Experiences in ESL

General

College/School
Education and Human Sciences

Course Title
Field Experiences in ESL

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
FOED

Course Number
6840

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
4

Contact Hours
Max :
12

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lab Hours

Lab Hours Min:
4

Lab Hours Max:
12

Course Description
Prerequisite: ESLP 4100(5100); Full admission to the Teacher Education Program. Supervised work experiences in public schools, stressing the translation of theory into practice and focusing on teaching English Language Learners in PreK-12 settings. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: ESLP 4100 (5100) ; Full admission to the Teacher Education Program.

FOED7020 - Philosophy & Public Policy

General

College/School
Education and Human Sciences

Course Title
Philosophy & Public Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FOED

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A philosophical analysis of educational theories and public policy.

FREN5100 - Advanced Listening

General

College/School
Arts and Sciences

Course Title
Advanced Listening

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FREN

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of listening acuity and general comprehension of commercially produced as well as authentic spoken texts. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: FREN 2020 or equivalent.

FREN5810 - Special Topics in French

General

College/School
Arts and Sciences

Course Title
Special Topics in French

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FREN

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: FREN 3010.

FREN6010 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
FREN

Course Number
6010

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Concentrated readings in areas of special interest. Available to graduate students minoring in French, with consent of departmental chairperson (Maximum of 12 credits.)

Requisites

Simple Requirements

Prerequisites: None

GEOG5150 - Geomorphology

General

College/School
Arts and Sciences

Course Title
Geomorphology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5150

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: GEOL 1040.

GEOG5210 - Cartography

General

College/School
Arts and Sciences

Course Title
Cartography

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5210

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Principles and practices of map construction and interpretation. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GEOG5410 - Remote Sensing

General

College/School
Arts and Sciences

Course Title
Remote Sensing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5410

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Principles and applications of remote sensing. Provides a survey of the concepts and techniques of remote sensing and image analysis for natural resources, geomorphology and Earth surface processes.

Requisites

Simple Requirements

Prerequisite: GEOL2500 Geologic Fundamentals.

GEOG5510 - Theory of GIS I

General

College/School
Arts and Sciences

Course Title
Theory of GIS I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5510

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Introduction to (1) the PC ARC/INFO GIS package, (2) the ArcView GIS package, and (3) the integration of Global Positioning Systems (GPS) with GIS. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor; computer literacy is assumed, GEOL 2300 and/or GEOL 4410 (5410) are recommended.

GEOG5511 - Theory of GIS II

General

College/School
Arts and Sciences

Course Title
Theory of GIS II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5511

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Intermediate principles of GIS using ArcGIS and ArcView packages. Advanced integration of GPS with GIS. Spatial analysis and modeling capabilities of GIS emphasized. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and GEOG 4510 (GEOG5510 Theory of GIS I).

GEOG5520 - Adv Vector-Based Geog Info Sys

General

College/School
Arts and Sciences

Course Title
Adv Vector-Based Geog Info Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics from basic course will be covered in greater detail, and advanced topics will be introduced. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GEOG 4510(GEOG5510 Theory of GIS I) and consent of instructor.

GEOG5620 - Principles of GIS

General

College/School
Arts and Sciences

Course Title
Principles of GIS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to the fundamentals of GIS. Theoretical and technical principles of managing and processing geographic data, nature of geographic data, spatial data models of map projection systems, kriging, structures and spatial analytical and modeling techniques. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GEOG5650 - Environmental Apps of GIS

General

College/School
Arts and Sciences

Course Title
Environmental Apps of GIS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Applications of GIS in environmental sciences and engineering. Main emphasis is on approaches, scripting, and modeling exercises. Covers the scope of ecosystems, forestry, drainage basins, pollution modeling, and spatial analysis of contaminants in various environments using GIS as the main tool of analysis. Completion of a real-world GIS project is required.

Requisites

Simple Requirements

Prerequisite: GEOG 4510(GEOG5510 Theory of GIS I)

GEOG5711 - Hydrogeology

General

College/School
Arts and Sciences

Course Title
Hydrogeology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5711

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Occurrence and movement of ground water, well hydraulics, water quality, and pollution.

Requisites

Simple Requirements

Prerequisites: GEOL 1040 and GEOL 1045. GEOL 1040 or GEOL3210 Geology for Engineers; MATH 1710 or MATH 1730 or MATH 1910.

GEOG5720 - AI for Geospatial Analysis

General

College/School
Arts and Sciences

Course Title
AI for Geospatial Analysis

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5720

Credit Hours

Credit Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Artificial intelligence and machine learning techniques for geospatial analysis. Course focuses on the latest advances in the field, including deep learning techniques, as applied to geospatial datasets and remote sensing technology. Students use real world case studies to leverage artificial intelligence and solve complex geospatial challenges.
Prerequisite: GEOG 4510/5510

Requisites

Simple Requirements

Prerequisite: GEOG 4510/5510

GEOG5850 - Advanced GIS

General

College/School
Arts and Sciences

Course Title
Advanced GIS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOG

Course Number
5850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced topics in GIS, including writing of avenue scripts, writing and importing Visual Basic scripts, customization of the interface; customization of spatial, network and 3D extensions of ArcView and AML. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GEOG 4510/4520. (GEOG5510 Theory of GIS I)

GEOL5150 - Geomorphology

General

College/School
Arts and Sciences

Course Title
Geomorphology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5150

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Analysis of landforms and processes that shape them.

Requisites

Simple Requirements

Prerequisite: GEOL2500 Geologic Fundamentals GEOL 1040.

GEOL5300 - Envrnmntl Aqueous Geochemistry

General

College/School
Arts and Sciences

Course Title
Envrnmntl Aqueous Geochemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5300

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Principles of water quality, chemical thermodynamics and equilibrium; chemical reactions; modeling of aquatic systems and a survey of practical applications of equilibrium aqueous geochemistry.

Requisites

Simple Requirements

Prerequisite: GEOL 1040, CHEM 1010 or CHEM 1110, or consent of instructor.

GEOL5320 - Petroleum Geology

General

College/School
Arts and Sciences

Course Title
Petroleum Geology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5320

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Origin and accumulation of petroleum and natural gas. Subsurface exploration techniques involving geophysical well-logs and seismic stratigraphy. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GEOL 3230 and 4110.

GEOL5330 - Environmental Geology

General

College/School
Arts and Sciences

Course Title
Environmental Geology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5330

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Application of geologic knowledge to the solution of problems arising from the interaction of human activities and natural earth processes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GEOL5410 - Remote Sensing

General

College/School
Arts and Sciences

Course Title
Remote Sensing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5410

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Principles and applications of remote sensing. Provides a survey of the concepts and techniques of remote sensing and image analysis for natural resources, geomorphology and Earth surface processes.

Requisites

Simple Requirements

Prerequisite: GEOL 2500.

GEOL5650 - Applied Geochemistry

General

College/School
Arts and Sciences

Course Title
Applied Geochemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of geochemistry to mineral exploration, environmental pollution, public health, and geologic hazards. Three field trips required.

Requisites

Simple Requirements

Prerequisites: GEOL 1040 and CHEM 1110.

GEOL5710 - Hydrogeology

General

College/School
Arts and Sciences

Course Title
Hydrogeology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Occurrence and movement of groundwater, well hydraulics, water quality and pollution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GEOL 1010 and GEOL 1040 or GEOL 1060; CHEM 1120; MATH 1510 or MATH 1710 (MATH 1810 is recommended); or consent of instructor.

GEOL5711 - Hydrogeology

General

College/School
Arts and Sciences

Course Title
Hydrogeology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5711

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Occurrence and movement of ground water, well hydraulics, water quality, and pollution.

Requisites

Simple Requirements

Prerequisites: GEOL 1040 and GEOL 1045. GEOL 1040 or GEOL3210 Geology for Engineers; MATH 1710 or MATH 1730 or MATH 1910.

GEOL5720 - Advanced Hydrogeology

General

College/School
Arts and Sciences

Course Title
Advanced Hydrogeology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5720

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Methods of aquifer remediation and groundwater modeling, case studies of groundwater contamination. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GEOL4710 Hydrogeology(GEOL5710 Hydrogeology) and MATH 1810 (MATH 1820 is recommended) or consent of instructor.

GEOL5810 - Special Problems

General

College/School
Arts and Sciences

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5810

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Prerequisite: Major and consent of instructor. Advanced students may do independent investigations in some approved field. May be repeated for credit. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

GEOL5820 - Special Problems

General

College/School
Arts and Sciences

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GEOL

Course Number
5820

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
4

Course Description
Prerequisite: Major and consent of instructor. Advanced students may do independent investigations in some approved field. May be repeated for credit. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

GERM5100 - Advanced Listening

General

College/School
Arts and Sciences

Course Title
Advanced Listening

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of listening acuity and general comprehension of commercially produced as well as authentic spoken texts. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: GERM 2020 or equivalent.

GERM5610 - 18th Century Literature

General

College/School
Arts and Sciences

Course Title
18th Century Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5610

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Selections primarily from Lessing, Schiller, or authors of the Sturm and Drang. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5620 - Goethe

General

College/School
Arts and Sciences

Course Title
Goethe

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5620

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Goethe¿s poetry, plus, upon demand, Goethe¿s dramas or prose. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5630 - Romanticism

General

College/School
Arts and Sciences

Course Title
Romanticism

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5630

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Selections from the poetry and prose of one or more of the major writers of the period, including Heinrich von Kleist. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5640 - 19th Century Literature

General

College/School
Arts and Sciences

Course Title
19th Century Literature

Academic Level (Course Level)
Undergraduate

Course Subject Code
GERM

Course Number
5640

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Selections from the prose or drama of one or more of the major writers of the period, including Keller, Storm, Meyer, Hebbel, Hauptmann. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

GERM5650 - Thomas Mann

General

College/School
Arts and Sciences

Course Title
Thomas Mann

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5650

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Shorter works such as Tonio Kroeger, Tod in Venedig, Tristan, etc. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5660 - Kafka

General

College/School
Arts and Sciences

Course Title
Kafka

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5660

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
A selection of short stories. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5670 - Brecht

General

College/School
Arts and Sciences

Course Title
Brecht

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5670

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
One or two selected dramas. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5680 - Post-WWII Literature

General

College/School
Arts and Sciences

Course Title
Post-WWII Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5680

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Choice of authors such as Boell, Grass, Duerrenmatt, Frisch, etc. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

GERM5810 - Special Topics in German

General

College/School
Arts and Sciences

Course Title
Special Topics in German

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: GERM 3010.

GERM6010 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
GERM

Course Number
6010

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
4

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
4

Course Description
Concentrated readings in areas of special interest. Available to graduate students minoring in German, with consent of departmental chairperson. (Maximum of 12 credits.)

Requisites

Simple Requirements

Prerequisites: None

HEC5010 - Principles/Nutrition Research

General

College/School
Agriculture and Human Ecology

Course Title
Principles/Nutrition Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of research as applied to the study of nutrition-based research questions, including standards of responsible research and evidence-based practice. Students will be required to conduct, analyze, and present an evaluative or applied research project.

Requisites

Simple Requirements

Prerequisite: Admission to the MS in Community Health and Nutrition Program.

HEC5011 - Personal/Family Finance Edu

General

College/School
Agriculture and Human Ecology

Course Title
Personal/Family Finance Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5011

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced study of financial literacy, consumer decision-making, and financial responsibilities for individuals and families. Course prepares students for the Personal and Family Financial Educator exam, which with passage to Certification in Personal and Family Financial Educator (CPFFE).

Requisites

Simple Requirements

Prerequisites: None

HEC5015 - Perspectives/Rural Comm Health

General

College/School
Agriculture and Human Ecology

Course Title
Perspectives/Rural Comm Health

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5015

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Emphasis on health promotion, health maintenance, and illness prevention among populations. Analysis of community health resources. Students will recognize and evaluate the interrelationships among individuals, families, and population groups within rural communities in determining health and nutrition needs.

Requisites

Simple Requirements

Prerequisites: None

HEC5025 - Cultural Practices Influencing Health and Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
Cultural Prac/Health&Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HEC

Course Number
5025

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explore how culture influences dietary patterns, decision-making, and nutritional status across different populations. Investigate differences in access to medical services among various groups, including those in rural areas, and evaluate evidence-based methods for disease prevention and intervention.

Requisites

Simple Requirements

Prerequisites: None

HEC5065 - Social Policy/Chldrn&Families

General

College/School
Agriculture and Human Ecology

Course Title
Social Policy/Chldrn&Families

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5065

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An understanding of the legal issues, policies and laws influencing the well-being of children and families. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: HEC 2065.

HEC5100 - Cultural Competence for Professionals

General

College/School
Agriculture and Human Ecology

Course Title
Cultural/Comp for Prof

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Exploration of cultural awareness and competence in healthcare professions with applications to children and families.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Additional Comments:
HEC 4100; 2065 and junior or Senior Standing; [HEC 2065 cannot be taken concurrently].

HEC 5100; graduate school admission

HEC5200 - Advanced Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
Advanced Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Interrelationships of nutrients as chemicals in metabolism at the cellular level. Current issues in nutrition. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: HEC 2020, CHEM 3010, BIOL 3350, and admission to the HEC-DPD program.

HEC5201 - Community Nutrition Prgrms/Srv

General

College/School
Agriculture and Human Ecology

Course Title
Community Nutrition Prgrms/Srv

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5201

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Synthesis of social, economic, cultural, and geographic factors on food and nutrition services for families. Analysis of community intervention programs and services as related to disease prevention and food policy issues.

Requisites

Simple Requirements

Prerequisites: Introductory nutrition course.

HEC5220 - Research Food Sci/Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
Research Food Sci/Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5220

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Independent work for students with special ability. May be repeated for a total of six credits when content varies. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Departmental approval.

HEC5230 - Fld Exp: OFCS-Culinary Arts

General

College/School
Agriculture and Human Ecology

Course Title
Fld Exp: OFCS-Culinary Arts

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Supervised field experience and seminar in teaching Family and Consumer Sciences related occupations.

Requisites

Simple Requirements

Prerequisite: Advance approval of Instructor.

HEC5235 - Principles of Food Prod/Prep

General

College/School
Agriculture and Human Ecology

Course Title
Principles of Food Prod/Prep

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5235

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of food production and preparation including functions and sources of nutrients; factors that affect food quality and nutrient retention; cultural influences and global factors that affect production, supply and distribution of food; food acquisition, safety, sanitation, preparation and service of food to promote individual and family well-being.

Requisites

Simple Requirements

Prerequisite: Fundamental nutrition course or consent of instructor.

HEC5241 - Quantity Food Production

General

College/School
Agriculture and Human Ecology

Course Title
Quantity Food Production

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5241

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Management and preparation of quality food in quantity; systems theory of management; advanced food safety and sanitation. Serv Safe certification offered.

Requisites

Simple Requirements

Prerequisite: HEC 3240 or appropriate food service work experience.

HEC5242 - Food Systems Administration

General

College/School
Agriculture and Human Ecology

Course Title
Food Systems Administration

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5242

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Systems approach to food service administration. Legal issues in food and nutrition services. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: HEC5241 Quantity Food Production or appropriate food service work experience.

HEC5250 - Field Exp in Sch Food Service

General

College/School
Agriculture and Human Ecology

Course Title
Field Exp in Sch Food Service

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5250

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
8

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Work experience in school food service management. Supervision by instructor and Tennessee certified school food service supervisor. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: HEC 3240, HEC4242 Food Systems Administration (HEC 5242)

HEC5271 - Medical Nutrition Therapy

General

College/School
Agriculture and Human Ecology

Course Title
Medical Nutrition Therapy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5271

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Medical nutrition therapy and nutritional status assessment. Students enrolled in the 5000-level course will be required to complete additional work as stated on the syllabus.

Requisites

Simple Requirements

Prerequisite: HEC3270 Nutrition in Disease

Prerequisite or corequisite: HEC 4200 (HEC5200 Advanced Nutrition)

HEC5420 - Current Housing Issues

General

College/School
Agriculture and Human Ecology

Course Title
Current Housing Issues

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
New developments in housing including current and emerging trends: Age appropriate needs for housing throughout the human lifespan.

Requisites

Simple Requirements

Prerequisites: None

HEC5430 - Textiles/Apparel-Global Econ

General

College/School
Agriculture and Human Ecology

Course Title
Textiles/Apparel-Global Econ

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Evaluation of key issues facing textiles and apparel businesses operating supply chains and sourcing in the global economy considering economic, political, and social perspectives and profesional implications.

Requisites

Simple Requirements

Prerequisites: None

HEC5440 - New Dvlpmnts-Textiles/Apparel

General

College/School
Agriculture and Human Ecology

Course Title
New Dvlpmnts-Textiles/Apparel

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
New developments in textiles and apparel including fiber, yarn, fabric, apparel design, production, evaluation, quality control, retailing and forecasting.

Requisites

Simple Requirements

Prerequisites: None

HEC5500 - Foundations of Child Life

General

College/School
Agriculture and Human Ecology

Course Title
Foundations of Child Life

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An introduction to the child life profession and foundations including scope of practice, impact of illness, family-centered care, therapeutic play, preparation, and the Official Documents of the Association of Child Life Professionals and the Child Life Certification Commission. This course is taught by a Certified Child Life Specialist and meets the content requirements to meet Child Life Certification Commission Academic Eligibility Requirements.

Requisites

No Requirements

HEC5510 - Advanced Child and Adolescent Development

General

College/School
Agriculture and Human Ecology

Course Title
Adv Child and Adolescent Dev

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced discovery of child and adolescent development including cognitive, physical, social, and emotional development with application of knowledge to healthcare and stressful events children and adolescents experience.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC5610 - Fam:Norm/Catastrophic Issues

General

College/School
Agriculture and Human Ecology

Course Title
Fam:Norm/Catastrophic Issues

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5610

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
5

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
3

Lab Hours

Lab Hours Min:
2

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

HEC5830 - OFCS Fld Exp: Child Care Srv

General

College/School
Agriculture and Human Ecology

Course Title
OFCS Fld Exp: Child Care Srv

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5830

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Supervised field experience and seminar in teaching occupational family and consumer sciences: child care services

Requisites

Simple Requirements

Prerequisite: Advanced approval of instructor.

HEC5832 - OFCS Fld Exp: Fshn/Fbrc Srvs

General

College/School
Agriculture and Human Ecology

Course Title
OFCS Fld Exp: Fshn/Fbrc Srvs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5832

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Supervised field experience and seminar in teaching Family and Consumer Sciences related occupations.

Requisites

Simple Requirements

Prerequisite: Advance approval of instructor.

HEC5960 - Independent Study

General

College/School
Agriculture and Human Ecology

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5960

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Special study of an approved topic (area) within Human Ecology under the supervision of a member of the Human Ecology graduate faculty. Up to six credit hours may be earned by Independent Study.

Requisites

Simple Requirements

Prerequisites: None

HEC5990 - Internship

General

College/School
Agriculture and Human Ecology

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
5990

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
12

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
12

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
12

Course Description
Supervised work experience. Application must be submitted to internship coordinator two semesters prior to internship semester. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Human ecology major, departmental approval.

HEC6010 - Theories of Human Development

General

College/School
Agriculture and Human Ecology

Course Title
Theories of Human Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of Human Development theories across the lifespan with cross-cultural exploration. Application of development perspectives to research and professional practice in human development.

Requisites

Simple Requirements

Prerequisites: None

HEC6020 - Nutrition Science

General

College/School
Agriculture and Human Ecology

Course Title
Nutrition Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced concepts of nutrition and health. Emphasis upon the function, food sources, recommended intake, food safety and assimilation of each of the six nutrient classes. Application of nutrition education practices in the classroom and community.

Requisites

Simple Requirements

Prerequisites: None

HEC6200 - Theories/Apps-Child Devlpmnt

General

College/School
Agriculture and Human Ecology

Course Title
Theories/Apps-Child Devlpmnt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A topical approach to theories and emerging issues in child development; an exploration of environmental and hereditary factors impacting child development with emphasis on at-risk population and children with exceptionalities.

Requisites

Simple Requirements

Prerequisites: None

HEC6201 - Comm Nutrition Prog/Serv

General

College/School
Agriculture and Human Ecology

Course Title
Comm Nutrition Prog/Serv

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6201

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Synthesis of social, economic, cultural, and geographic factors on food and nutrition services for families. Analysis of community intervention programs and services as related to disease prevention and food policy issues; emphasis on rural communities.

Requisites

Simple Requirements

Prerequisites: HEC5025 Cultural Prac/Health&Nutrition

HEC6220 - Theories/Child Guidance-Bhvior

General

College/School
Agriculture and Human Ecology

Course Title
Theories/Child Guidance-Bhvior

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A topical approach to theories of child behavior and emerging issues in child guidance. An exploration of environmental factors that impact child behavior with emphasis on children with exceptionalities.

Requisites

Simple Requirements

Prerequisites: None

HEC6225 - Adv Counseling Techniques

General

College/School
Agriculture and Human Ecology

Course Title
Adv Counseling Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6225

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An in-depth exploration of historical and theoretical/philosophical foundations of delivering health counseling services in the context of the larger social services system. Also Addresses issues of diversity in the application of counseling models, intervention, and services delivery to promote healthy behavior change.

Requisites

Simple Requirements

Prerequisites: None

HEC6240 - Dvlp Apprp Pract/Creative Play

General

College/School
Agriculture and Human Ecology

Course Title
Dvlp Apprp Pract/Creative Play

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Developmentally appropriate practice and emphasis on creative play techniques in educational and social service areas. (This course can be added to the 30-credit curriculum by Professionals with Licensure-seeking endorsement in Early Child Care Services (451)).

Requisites

Simple Requirements

Prerequisites: None

HEC6250 - EXP Food Mgmt/Ext Care

General

College/School
Agriculture and Human Ecology

Course Title
EXP Food Mgmt/Ext Care

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Application and integration of food systems management and extended care knowledge and skills in a professional setting.

HEC6251 - EXP Community Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
EXP Community Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6251

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisites: HEC 6250; Admission to the MS in Community Health and Nutrition Graduate Program. Application and integration of community nutrition knowledge and skills to individuals, families and communities. Emphasis is placed on interaction with clients in rural community settings.

HEC6252 - EXP Clinical Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
EXP Clinical Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6252

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisites: HEC 6250 and Admission to the MS in Community Health and Nutrition Program. Integration and application of knowledge and skills in medical nutrition therapy in a professional setting.

HEC6253 - EXP Practicum

General

College/School
Agriculture and Human Ecology

Course Title
EXP Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6253

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisites: HEC 6252 and Admission to the MS in Community Health and Nutrition Program. Integration and application of clinical, community and food service knowledge and skills in a variety of settings; including sports nutrition and professional meetings.

HEC6300 - Aging/Grntlgy:Issues Impct Soc

General

College/School
Agriculture and Human Ecology

Course Title
Aging/Grntlgy:Issues Impct Soc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A topical approach to emerging issues in the aging population, with emphasis on advocacy and services for individuals and families in the later stages of the life span.

Requisites

Simple Requirements

Prerequisites: None

HEC6405 - Nutrition Across Life Cycle

General

College/School
Agriculture and Human Ecology

Course Title
Nutrition Across Life Cycle

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6405

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of the nutritional needs of individuals during critical ages and stages of development. Assessing and promoting health throughout the life cycle, including consequences of over- and under-nutrition.

Requisites

Simple Requirements

Prerequisite: HEC6225 Adv Counseling Techniques

HEC6410 - Nutrition and Aging

General

College/School
Agriculture and Human Ecology

Course Title
Nutrition and Aging

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Review of the major health issues and nutritional needs of older adults. Overview of human nutrient needs and the physiological, psychological, and sociological relationships with nutrition and aging.

Requisites

Simple Requirements

Prerequisites: None

HEC6430 - Comm Health/Nutrition Capstone

General

College/School
Agriculture and Human Ecology

Course Title
Comm Health/Nutrition Capstone

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Capstone project resulting in an in-depth synthesis of evidence-based knowledge in a community health and nutrition topic.

Requisites

Simple Requirements

Prerequisite: HEC6405 Nutrition Across Life Cycle

HEC6440 - Leadership/Nutrition Policy

General

College/School
Agriculture and Human Ecology

Course Title
Leadership/Nutrition Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Synthesis of leadership and advocacy skills needed in health-related professions. Application of knowledge of nutrition and health related-issues and policies.

Requisites

Simple Requirements

Prerequisites: None

HEC6500 - Child Life Assessment

General

College/School
Agriculture and Human Ecology

Course Title
Child Life Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Child Life assessment techniques with children and families in healthcare and stressful life events.

Requisites

Simple Requirements
Prerequisite of Graduate School Admission

HEC6510 - Play: Theory and Practice

General

College/School
Agriculture and Human Ecology

Course Title
Play: Theory and Practice

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced study of play theories and relevance of play modalities to child life practice including developmental, expressive, therapeutic, and medical play.

Requisites

Simple Requirements
Prerequisite of Graduate School Admission

HEC6515 - Research in Child Life

General

College/School
Agriculture and Human Ecology

Course Title
Research in Child Life

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6515

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of research design and methodologies to the child life profession.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6520 - Families in Healthcare

General

College/School
Agriculture and Human Ecology

Course Title
Families in Healthcare

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Comprehensive study of the family in healthcare experiences including applications to child life practice.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6525 - Trauma Informed Care for Helping Professions

General

College/School
Agriculture and Human Ecology

Course Title
Trauma Informed Care/HelpProf

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6525

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Exploring types of trauma and implications on both human and brain development, with an emphasis on parenting and supporting children who have experienced trauma, and the importance of trauma informed responses by professionals to individuals and families.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6530 -

General

College/School
Agriculture and Human Ecology

Course Title
Loss, Grief and Bereavement

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced study of loss, death, grief, and bereavement and the impacts on individuals throughout the lifespan with focused applications to child life practice.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6535 - Adult Development and Psychosocial Care

General

College/School
Agriculture and Human Ecology

Course Title
Adult Dev /Psychosocial Care

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6535

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced discovery of adult development including cognitive, physical, social, and emotional development with application of knowledge to psychosocial care for healthcare.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6540 - Child Life Intervention

General

College/School
Agriculture and Human Ecology

Course Title
Child Life Intervention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6540

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Comprehensive study of child life psychosocial interventions with application to healthcare experiences and stressful life events.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6550 - Professional Topics and Ethical Practice

General

College/School
Agriculture and Human Ecology

Course Title
Prof Topics and Ethical Prac

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HEC

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced study of ethical practice in the child life profession. Comprehensive discovery of professional topics including scope of practice, self-reflection, professional development, working relationships, organizational structure, communication, advocacy, supervision, and program administration and evaluation.

Requisites

Simple Requirements

Prerequisite of Graduate School Admission

HEC6565 - Child Life Clinical Seminar

General

College/School
Agriculture and Human Ecology

Course Title
Child Life Clinical Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6565

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This graduate-level course is designed for students seeking advance professional preparation in the field of Child life. Applying child life academic knowledge to clinical practice, students will engage in a comprehensive learning experience that emphasizes critical reflection, professional growth, and evidence-base application. The course is structured to foster the development of Child Life Competencies preparing students for professional roles within child life programs. Corequisite: HEC 6575 Child Life Clinical Experience

Requisites

No Requirements

HEC6570 - Child Life Pre-Internship Experiential Learning

General

College/School
Agriculture and Human Ecology

Course Title
Child Life PreIntern Exp Learn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6570

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Applied experiential learning including integration and application of child life, developmental, family, and psychosocial knowledge and skills in a variety of settings that provide care to children and families as approved by the Child Life Graduate Program Director.

Requisites

Simple Requirements

Prerequisites: Admission to Child Life Experiential Learning Graduate Program

HEC6575 - Child Life Clinical Experience

General

College/School
Agriculture and Human Ecology

Course Title
Child Life Clinical Exp

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HEC

Course Number
6575

Credit Hours

Credit Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Course Description
Experiential learning in a pediatric healthcare facility to develop clinical child life skills. Direct supervision by a Certified Child Life Specialist who meets internship supervisor requirements and is in good standing with the ACLP is required. In order to meet the Association of Child Life Professionals eligibility requirements to sit for the Child Life Certification Exam, the Child Life Internship experience must be a minimum of 600 clock hours.

Requisites

Simple Requirements

Prerequisite: Admission to Child Life Experiential Learning Graduate Program

HEC6600 - Fam Thries/Issues Impctng Fams

General

College/School
Agriculture and Human Ecology

Course Title
Fam Thries/Issues Impctng Fams

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of selected family theories to provide context of understanding the family as a social system with emphasis on family-professional collaboration.

Requisites

Simple Requirements

Prerequisites: None

HEC6610 - Crisis Mgmt/Interv-Families

General

College/School
Agriculture and Human Ecology

Course Title
Crisis Mgmt/Interv-Families

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
In-depth study of family stress and effective coping mechanisms that relate to normative transitions and crisis events.

Requisites

Simple Requirements

Prerequisites: None

HEC6630 - Strategies & Advocacy-Families

General

College/School
Agriculture and Human Ecology

Course Title
Strategies & Advocacy-Families

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Survey of service delivery programs that serve and advocate for families.

Requisites

Simple Requirements

Prerequisites: None

HEC6640 - Review of Nutrition and Dietetics

General

College/School
Agriculture and Human Ecology

Course Title
Review of Nutr. and Dietetics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HEC

Course Number
6640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is intended to prepare students to take the registration examination for registered dietitian/nutritionists. Topics include principles of dietetics, foodservice systems, nutrition care for individuals and groups, and management of food and nutrition programs and services.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Additional Comments:
Admission to the Community Health and Nutrition graduate program.

HEC6811 - Learn/Instrct Strat-FCS Edu

General

College/School
Agriculture and Human Ecology

Course Title
Learn/Instrct Strat-FCS Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6811

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Responsibilities of the family and consumer sciences teacher in middle and secondary school. Selection, use and evaluation of learning experiences and material, program planning. Includes participation and observation in local schools and extension programs.

Requisites

Simple Requirements

Prerequisites: None

HEC6820 - Pract: Inst Dvlp/Teach-FCS

General

College/School
Agriculture and Human Ecology

Course Title
Pract: Inst Dvlp/Teach-FCS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6820

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Observation and supervised teaching and participation in Family and Consumer Sciences Educational settings.

Requisites

Simple Requirements

Pre or Co-Requisite: HEC6811 Learn/Instrct Strat-FCS Edu

HEC6841 - OFCS/Field Experience

General

College/School
Agriculture and Human Ecology

Course Title
OFCS/Field Experience

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6841

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Organization and operation of Occupational Family and Consumer Sciences Programs at middle school, high school and adult levels.

Requisites

Simple Requirements

Prerequisites: None

HEC6900 - Special Topics

General

College/School
Agriculture and Human Ecology

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HEC

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Research in contemporary developments in Human Ecology. May be repeated. Maximum six credits

Requisites

Simple Requirements

Prerequisites: None

HEC6920 - Topics/Issues/Research in HEC

General

College/School
Agriculture and Human Ecology

Course Title
Topics/Issues/Research in HEC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced study of a topic or topics relevant to research and/or practice in the field of Human Ecology.

Requisites

Simple Requirements

Prerequisites: None

HEC6940 - Nutrition, Fitness & Wellness

General

College/School
Agriculture and Human Ecology

Course Title
Nutrition, Fitness & Wellness

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic principles of wellness promotion through exercise and nutrition; assessment and intervention strategies are included.

Requisites

Simple Requirements

Prerequisites: None

HEC6945 - Advanced Sports Nutrition

General

College/School
Agriculture and Human Ecology

Course Title
Advanced Sports Nutrition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6945

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Interrelations of nutrients in metabolism at the cellular level. Application of metabolic processes for energy consumption to fuel athletic performance.

Requisites

Simple Requirements

Prerequisites: None

HEC6990 - Professional Capstone Project

General

College/School
Agriculture and Human Ecology

Course Title
Professional Capstone Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of an integrated, culminating project that is a substantial piece of independent research or significant professional project that demonstrates the student's ability to use the knowledge gained from this program of study in the field of Human Ecology.

Requisites

Simple Requirements

Prerequisite: HEC6920 Topics/Issues/Research in HEC

HEC6995 - Sport Specific Nutrition Persp

General

College/School
Agriculture and Human Ecology

Course Title
Sport Specific Nutrition Persp

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HEC

Course Number
6995

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Specific nutrition strategies to support various types of training to include: resistance, power/sprint, middle distance/speed endurance, endurance, technical/skill, team and competition nutrition needs. Disordered eating and health complications in various athletic populations.

Requisites

Simple Requirements

Prerequisites: None

HIST5010 - Colonial/Revolutionary Periods

General

College/School
Arts and Sciences

Course Title
Colonial/Revolutionary Periods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Early American Society; Revolutionary conflict; Confederation and Constitution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5020 - The Young Republic 1789-1849

General

College/School
Arts and Sciences

Course Title
The Young Republic 1789-1849

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Political, military, social, and cultural history of the U.S., from the era of Washington through the "Age of Jackson" to the Mexican War. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5030 - Civil War & Reconstruction

General

College/School
Arts and Sciences

Course Title
Civil War & Reconstruction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sectionalism and the coming of war; war-time developments; plans of reconstruction and their impact. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5040 - Rise of Modern Am, 1877-1912

General

College/School
Arts and Sciences

Course Title
Rise of Modern Am, 1877-1912

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Industrialism, urbanism, populism, reform and their impact. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5050 - Transform/Mod Am, 1912-1945

General

College/School
Arts and Sciences

Course Title
Transform/Mod Am, 1912-1945

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Wilsonian reform, World War I, New Era, New Deal, World War II, with emphasis on changes in politics, the economy, and society. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5060 - Postwar America, 1945-Present

General

College/School
Arts and Sciences

Course Title
Postwar America, 1945-Present

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cold War diplomacy and society, troubled Sixties, post-Watergate politics, contemporary cultural, economic, and social changes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5070 - History of Comic Books

General

College/School
Arts and Sciences

Course Title
History of Comic Books

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5070

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers artistic and historic themes of comic books.

Requisites

Simple Requirements

Prerequisites: None

HIST5090 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5090

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5091 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5091

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5092 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5092

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5093 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5093

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5094 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5094

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5095 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5095

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5096 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5096

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5097 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5097

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5098 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5098

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5099 - Studies in Popular Culture

General

College/School
Arts and Sciences

Course Title
Studies in Popular Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5099

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues in popular culture.

Requisites

Simple Requirements

Prerequisites: None

HIST5110 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5111 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5111

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5112 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5112

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5113 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5113

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5114 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5114

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5115 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5115

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5116 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5116

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5117 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5117

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5118 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5118

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5119 - Appalachian History/Culture

General

College/School
Arts and Sciences

Course Title
Appalachian History/Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5119

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics relating to the history and culture of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5200 - Old South

General

College/School
Arts and Sciences

Course Title
Old South

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will focus upon the economic, cultural, educational, racial, and political developments in southern society from its colonial beginnings to the Civil War and Reconstruction. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5210 - The New South

General

College/School
Arts and Sciences

Course Title
The New South

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will focus upon the economic, cultural, educational, racial, and political developments in southern society from the end of Reconstruction to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5230 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5231 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5231

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5232 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5232

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5233 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5233

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5234 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5234

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
33

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5235 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5235

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5236 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5236

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5237 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5237

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5238 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5238

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5239 - Topics/US Economic History

General

College/School
Arts and Sciences

Course Title
Topics/US Economic History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5239

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in U.S. economic history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5250 - American Westward Movement

General

College/School
Arts and Sciences

Course Title
American Westward Movement

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The frontier experience in American history, with emphasis on the trans-Mississippi West. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5290 - Sci & Tech In America

General

College/School
Arts and Sciences

Course Title
Sci & Tech In America

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5290

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Origins and development of science and technology in the U.S. from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5310 - US Diplomacy

General

College/School
Arts and Sciences

Course Title
US Diplomacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The background, origins, and developments of 20th century American foreign relations. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5330 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5331 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5331

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5332 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5332

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5333 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5333

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5334 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5334

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5335 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5335

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5336 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5336

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5337 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5337

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5338 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5338

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5339 - Religious Studies

General

College/School
Arts and Sciences

Course Title
Religious Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5339

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in religious history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5350 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5351 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5351

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5352 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5352

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5353 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5353

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5354 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5354

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5355 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5355

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5356 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5356

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5357 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5357

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5358 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5358

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5359 - Gender Studies

General

College/School
Arts and Sciences

Course Title
Gender Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5359

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in gender history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5360 - US Social History

General

College/School
Arts and Sciences

Course Title
US Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5361 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5361

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5362 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5362

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5363 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5363

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5364 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5364

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5365 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5365

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5366 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5366

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5367 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5367

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5368 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5368

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5369 - U S Social History

General

College/School
Arts and Sciences

Course Title
U S Social History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5369

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in U.S. social history ranging from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5370 - Women in American History

General

College/School
Arts and Sciences

Course Title
Women in American History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Public and private experiences of women in the United States from the colonial period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5380 - Black Women in U.S. History

General

College/School
Arts and Sciences

Course Title
Black Women in U.S. History

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5380

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers the role of women of African descent in the history of the United States.

HIST5390 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5390

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5391 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5391

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5392 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5392

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5393 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5393

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5394 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5394

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5395 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5395

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5396 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5396

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5397 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5397

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5398 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5398

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5399 - Topics: African Am Studies

General

College/School
Arts and Sciences

Course Title
Topics: African Am Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5399

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in African American History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5400 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
2

Lab Hours

Lab Hours Min:
2

Course Description

Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5401 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5401

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5402 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5402

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5403 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5403

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5404 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5404

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5405 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5405

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5406 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5406

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5407 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5407

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5408 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5408

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5409 - Film Studies

General

College/School
Arts and Sciences

Course Title
Film Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5409

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Selected topics in the history of films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5420 - Public History

General

College/School
Arts and Sciences

Course Title
Public History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5420

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Introduce history majors to possible careers in the field and give students practical, hands-on experience in the field of Public History. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5440 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5441 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5441

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5442 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5442

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5443 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5443

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5444 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5444

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5445 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5445

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5446 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5446

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5447 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5447

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5448 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5448

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5449 - Native American Studies

General

College/School
Arts and Sciences

Course Title
Native American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5449

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Native American history ranging from the earliest times to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5470 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5471 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5471

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5472 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5472

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5473 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5473

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5474 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5474

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5475 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5475

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5476 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5476

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5477 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5477

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5478 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5478

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5479 - Sports Studies

General

College/School
Arts and Sciences

Course Title
Sports Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5479

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in the history of sports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5520 - Medieval Europe

General

College/School
Arts and Sciences

Course Title
Medieval Europe

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Evolution of medieval culture from the fall of the Roman Empire to the 13th century and its dissolution during the late medieval period.

Requisites

Simple Requirements

Prerequisites: None

HIST5530 - Renaissance & Reformation

General

College/School
Arts and Sciences

Course Title
Renaissance & Reformation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Europe during age of New Learning; Renaissance and Mannerist art; 16th century Reformation; Wars of Religion. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5540 - Absolutism & Enlightenment

General

College/School
Arts and Sciences

Course Title
Absolutism & Enlightenment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Europe during 17th and 18th centuries; rise of centralized states; dynastic wars, rise of modern science; Enlightenment thought. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5550 - French Revolution & Napoleon

General

College/School
Arts and Sciences

Course Title
French Revolution & Napoleon

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Europe from 1789 to 1815, centering on events in France and political, diplomatic, and military history of the period. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5560 - 19th Century Europe

General

College/School
Arts and Sciences

Course Title
19th Century Europe

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

European politics, diplomacy, society, war, and institutions from 1815 through World War I. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5570 - World War II & The Cold War

General

College/School
Arts and Sciences

Course Title
World War II & The Cold War

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Problems of European powers during inter-war years; background, causes, and results of World War II and Cold War. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5620 - Russia

General

College/School
Arts and Sciences

Course Title
Russia

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Political, cultural, social, and military history from the Kievan period to the present. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5630 - History of France

General

College/School
Arts and Sciences

Course Title
History of France

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
France has played a significant role in shaping European and world events, both through its international policies and internal developments. This course considers the historical development of France.

Requisites

Simple Requirements

Prerequisites: None

HIST5640 - History of Modern Germany

General

College/School
Arts and Sciences

Course Title
History of Modern Germany

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
History of Modern Germany with an emphasis on the nineteenth and twentieth centuries.

Requisites

Simple Requirements

Prerequisites: None

HIST5650 - England to 1688

General

College/School
Arts and Sciences

Course Title
England to 1688

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Roman, Anglo-Saxon, and Medieval England; Tudor and Stuart dynasties. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5660 - Modern England

General

College/School
Arts and Sciences

Course Title
Modern England

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
England since the Glorious Revolution, with special emphasis on the nineteenth and twentieth centuries. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5665 - World War I

General

College/School
Arts and Sciences

Course Title
World War I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HIST

Course Number
5665

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers World War I and its consequences within the political, social, and cultural contexts of European development since 1871.

Requisites

Simple Requirements

Prerequisites: None

HIST5668 - Nazi Germany

General

College/School
Arts and Sciences

Course Title
Nazi Germany

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5668

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers developments relating to the Nazi era in German history.

Requisites

Simple Requirements

Prerequisites: None

HIST5680 - The Holocaust

General

College/School
Arts and Sciences

Course Title
The Holocaust

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5680

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers topics relating ot the history of the Holocaust.

Requisites

Simple Requirements

Prerequisites: None

HIST5690 - British Empire & Commonwealth

General

College/School
Arts and Sciences

Course Title
British Empire & Commonwealth

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5690

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Origin, development and decline of the British Empire. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5710 - History of Africa

General

College/School
Arts and Sciences

Course Title
History of Africa

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

History of Africa with an emphasis on the nineteenth and twentieth centuries. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5730 - The Modern Middle East

General

College/School
Arts and Sciences

Course Title
The Modern Middle East

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Consideration of the traditional cultural background of the region, but with emphasis on the rapid changes experienced during the twentieth century. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5740 - History of Japan

General

College/School
Arts and Sciences

Course Title
History of Japan

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Early Japanese history followed by a comprehensive investigation of the 20th century experience. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5750 - History of China

General

College/School
Arts and Sciences

Course Title
History of China

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Early Chinese history followed by an emphasis on the 20th century revolutionary experience. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5760 - Vietnam: Its Wars & Aftermath

General

College/School
Arts and Sciences

Course Title
Vietnam: Its Wars & Aftermath

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5760

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Overview of Vietnam, the French experience, the U.S. war and its impact on America, followed by developments since 1975. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5770 - History of India and South Asia

General

College/School
Arts and Sciences

Course Title
History of India

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5770

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A history of India from the Mughal Empire to modern day India, including contextual study in South Asian history including Pakistan, Sri Lanka, and Bangladesh.

Requisites

Simple Requirements

No prerequisites.

HIST5790 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5790

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

HIST5791 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5791

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5792 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5792

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5793 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5793

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5794 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5794

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5795 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5795

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5796 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5796

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5797 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5797

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5798 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5798

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5799 - Latin American Studies

General

College/School
Arts and Sciences

Course Title
Latin American Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5799

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selected topics in Latin American history. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5810 - Scientific Controversies

General

College/School
Arts and Sciences

Course Title
Scientific Controversies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Historical analysis of selected controversies in science and their impact within and outside the scientific community. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5880 - History of Medicine

General

College/School
Arts and Sciences

Course Title
History of Medicine

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5880

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers the history of medicine and the medical field.

Requisites

Simple Requirements

Prerequisites: None

HIST5881 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5881

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5882 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5882

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5883 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5883

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5884 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5884

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5885 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5885

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5886 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5886

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5887 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5887

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5888 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5888

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5889 - Studies in Legal History

General

College/School
Arts and Sciences

Course Title
Studies in Legal History

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5889

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to legal history.

Requisites

Simple Requirements

Prerequisite: None

HIST5890 - History of Nursing/Healthcare

General

College/School
Arts and Sciences

Course Title
History of Nursing/Healthcare

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5890

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Considers issues relating to the history of nursing and healthcare. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

HIST5900 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5901 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5901

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5902 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5902

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5903 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5903

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5904 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5904

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5905 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5905

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5906 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5906

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5907 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5907

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5908 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5908

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST5909 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
5909

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A formal course in any area where there is no other course offering.

Requisites

Simple Requirements

Prerequisite: none

HIST6100 - Interdisc Cultural Training

General

College/School
Arts and Sciences

Course Title
Interdisc Cultural Training

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This will be an active learning course focused on sociology, history, cultures, economics, and language of the Cherokee Nation and Appalachia. It will explore effective strategies to collaboratively solve complex food-energy-water challenges from a culturally responsive perspective.

Requisites

Simple Requirements

Prerequisites: None

HIST6440 - Seminar in American Hist

General

College/School
Arts and Sciences

Course Title
Seminar in American Hist

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

HIST6940 - Seminar in European Hist

General

College/School
Arts and Sciences

Course Title
Seminar in European Hist

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
6940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

HIST6950 - Practicum/Teaching Hist

General

College/School
Arts and Sciences

Course Title
Practicum/Teaching Hist

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
6950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

HIST6980 - Directed Reading

General

College/School
Arts and Sciences

Course Title
Directed Reading

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
HIST

Course Number
6980

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

HRED7000 - Seminar in Higher Education

General

College/School
Education and Human Sciences

Course Title
Seminar in Higher Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7000

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description

Prerequisite: Admission to Doctoral Program. Introductory course to familiarize students with the procedures, requirements, and expectations of the program. Introduces students to a variety of perspectives and roles at higher education institutions. For students in Higher Education concentration only.

HRED7010 - Trends & Issues in Higher Edu

General

College/School
Education and Human Sciences

Course Title
Trends & Issues in Higher Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Analyze current trends and issues in higher education and historical circumstances that have led to the current state of post-secondary education. Explore the future state of education, anticipating trends and issues that higher education leaders will likely navigate moving forward.

HRED7020 - Ethical Aspects of Higher Educ

General

College/School
Education and Human Sciences

Course Title
Ethical Aspects of Higher Educ

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the Doctoral Program. Overview of the ethical theories and influential case studies that have impacted the educational system, teaching, learning and student outcomes. Topics addressed include diversity ad inclusion, faculty academic freedom, shared governance, freedom of speech, and access and affordability.

HRED7030 - College and University Management

General

College/School
Education and Human Sciences

Course Title
College/University Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program and EDU 7300. Overview of higher education management. Examines contemporary management and budget theories and practices for postsecondary institutions.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- EDU7300 - Research Design

Admission to doctoral program.

HRED7040 - Public Policy & Higher Ed Law

General

College/School
Education and Human Sciences

Course Title
Public Policy & Higher Ed Law

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Law, legal environment, processes, analysis of law, and legal problems in higher education. Overview of social, economical, cultural, political, and behavioral aspects of higher education policy analysis. Address a modern history of higher education.

HRED7050 - Ed Tech, Dsgn, Innov/Higher Ed

General

College/School
Education and Human Sciences

Course Title
Ed Tech, Dsgn, Innov/Higher Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Address and apply current research and theory related to learning, design, and technology with higher education.

HRED7110 - Trends/Struct/Higher Ed Admin

General

College/School
Education and Human Sciences

Course Title
Trends/Struct/Higher Ed Admin

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Investigates administrative trends and issues common across colleges and universities from a variety of perspectives. Organizational patterns and structure, roles and partnerships, curricular processes and program development in the higher education administrative setting.

HRED7120 - Organiz. & Leadership Theories

General

College/School
Education and Human Sciences

Course Title
Organiz. & Leadership Theories

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Incorporates culture, policy and resource development, and leadership theories in an organizational setting. Presents a perspective of organizational theory through historical and developmental contexts. Includes conceptional models of learning and leadership related to decision-making strategies.

HRED7130 - Leadershp Devel & Transformatn

General

College/School
Education and Human Sciences

Course Title
Leadershp Devel & Transformatn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Overview of basic concepts and theories of leadership. Emphasis placed on implementing leadership theory to analyze various situations and create and apply solutions for effective organizational transformation.

HRED7140 - Col Access/Afford & St.Success

General

College/School
Education and Human Sciences

Course Title
Col Access/Afford & St.Success

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Incorporates historical investments in college access and affordability, as well as costs, debts, and other barriers for entrance and success at the university level. Study supports and outcomes associated with success, persistence, and completion.

HRED7150 - PPEA for HrEd Admins

General

College/School
Education and Human Sciences

Course Title
PPEA for HrEd Admins

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. Planning and evaluation of various programs and initiatives related to higher education administration to determine effectiveness and ability to meet designated goals and objectives. Research on the cycle planning efforts, the valuation setting, design, analysis, and outcomes. Study of planning, implementation, and improvements to assessments relative to higher education administrators.

HRED7160 - Fundamentals of Data Science

General

College/School
Education and Human Sciences

Course Title
Fundamentals of Data Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7160

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program; EDU 7300 and EDU 7430. Introduction to foundational concepts, technologies, and theories of data and data science with a specific focus in higher education.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; EDU 7300 and EDU 7430.

HRED7170 - Applications of Data Analysis

General

College/School
Education and Human Sciences

Course Title
Applications of Data Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program; HRED 7160. In depth study of programming language known as R. Use of RStudio, an accessory environment that allows work to be more efficient with R. Software applications and tools that are unique to R, such as R packages.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; HRED 7160.

HRED7180 - Data Manip., Analyt, & Vis

General

College/School
Education and Human Sciences

Course Title
Data Manip., Analyt, & Vis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7180

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program; HRED 7170. Use of R and Python to obtain, store, and clean data.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; HRED 7170.

HRED7190 - Predictive Analytics

General

College/School
Education and Human Sciences

Course Title
Predictive Analytics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7190

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Admission to Doctoral Program; HRED 7180. Introduction to the concepts, processes, and applications of predictive modeling, with a focus on linear regression and time series forecasting models.

Requisites

Simple Requirements

Prerequisites: Admission to Doctoral Program; HRED 7180.

HRED7210 - Stu. Pers. Serv. in Higher Ed.

General

College/School
Education and Human Sciences

Course Title
Stu. Pers. Serv. in Higher Ed.

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to Doctoral Program. Strategic analysis of the various services within student development such as admissions; career development; student success; student affairs; residential life, student activities; Greek life, scholarships; and how leaders can best utilize and collaborate to ensure institutional goals and/or student success outcomes are met.

HRED7220 - Col Stu:Culture/Char/Coll Life

General

College/School
Education and Human Sciences

Course Title
Col Stu:Culture/Char/Coll Life

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Examine the dynamics of traditional and non-traditional college students; emphasis will be placed on identification of student culture and characteristics across higher education institutions.

HRED7230 - Research-based Stu. Success

General

College/School
Education and Human Sciences

Course Title
Research-based Stu. Success

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Evaluate postsecondary research that supports student success, including the use of technology and tools to support learning environments, financial and academic barriers, various degree pathways, evidence-based teaching practices and engagement, advisement and support services, career planning, and educational achievement based on socioeconomic, ethnic, racial, cultural, and age variants.

HRED7240 - Prof. Ldrship/Student Affairs

General

College/School
Education and Human Sciences

Course Title
Prof. Ldrship/Student Affairs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Explore and engage in reflective practice and critical reflection relative to leadership in student affairs. The foci will be on leading and managing various units in student affairs, including strategies for effective communication, personnel and conflict management, budgetary decision making, research-based best practices, and leadership styles.

HRED7250 - PPEA for Student Affairs Prsn

General

College/School
Education and Human Sciences

Course Title
PPEA for Student Affairs Prsn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to Doctoral Program. Planning and evaluation of various programs and initiatives related to student affairs in higher education to determine effectiveness and ability to meet designated goals and objectives. Research on the cycle of planning efforts, the evaluation setting, design, analysis, and outcomes. Study of planning, implementation, and improvements to assessments relevant to student affairs personnel.

HRED7800 - Practicum in Higher Education

General

College/School
Education and Human Sciences

Course Title
Practicum in Higher Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
HRED

Course Number
7800

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
9

Lab Hours

Lab Hours Min:
3

Lab Hours Max:
9

Course Description
Prerequisite: Admission to Doctoral Program. Field experience in a higher education professional setting. Maximum of nine credit hours.

ICL7059 - Models of Instruction

General

College/School
TN eCampus Degree

Course Title
Models of Instruction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ICL

Course Number
7059

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Requisites

INSL6510 - School Leadership & Law

General

College/School
Education and Human Sciences

Course Title
School Leadership & Law

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
6510

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

A study of content, topics, and competencies required for instructional leaders to engender student achievement and school success. Also, included are studies of court cases, legal principles, school policies, law, and educational regulations applicable to school classroom situations.

INSL6520 - Schl-Based Mgmt & Comm Rlt

General

College/School
Education and Human Sciences

Course Title
Schl-Based Mgmt & Comm Rlt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
6520

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

Financial issues and budgeting related to school operations, including facility development, transportation, and other auxiliary services. Techniques and procedures for interpreting the public schools to the community. Principles, practices, and functions of supervision in public schools. Field experience component.

INSL6530 - Data Drvn Curic:Dev,Asmt,Eval

General

College/School
Education and Human Sciences

Course Title
Data Drvn Curic:Dev,Asmt,Eval

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
6530

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

Using current trends in curriculum development and advanced educational methods for K-12 education, this course is designed to assist Instructional Leadership candidates in the areas of defining objectives, planning for improvement, organization of instructional materials, curriculum evaluation, and a strong emphasis on current research and best practices.

INSL6560 - Technology for Administrators

General

College/School
Education and Human Sciences

Course Title
Technology for Administrators

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
6560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Course involves a survey of emerging and existing technologies related to school administration (operation), instruction, and planning. Emphasis is placed on effective knowledge, access, and use of available technology with ability to accurately retrieve, analyze, and disseminate school-related area.

INSL7010 - Instructional Leadership

General

College/School
Education and Human Sciences

Course Title
Instructional Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
7010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

A study of content, topics, and competencies required for instructional leaders to engender student achievement and school success.

INSL7400 - School Ldrship & Supervision

General

College/School
Education and Human Sciences

Course Title
School Ldrship & Supervision

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
7400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Emphasis on teaching and leadership roles in the development of effective schools and student learning.

INSL7510 - Lgl/Ethicl/Dvrsty Issues-INSL

General

College/School
Education and Human Sciences

Course Title
Lgl/Ethicl/Dvrsty Issues-INSL

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
7510

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

A study of content, topics, and competencies required for instructional leaders to engender student achievement and school success. Also, included are legal and ethical issues impacting on instructional leadership, classroom activities, and other school practices.

INSL7520 - HR Mgmt & Public Relations

General

College/School
Education and Human Sciences

Course Title
HR Mgmt & Public Relations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
7520

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

A study of revenue sources, budgeting techniques, financial management, grant development, and practices relevant to school finance. Emphasis on teaching and roles in the development of effective schools and student learning. Practical, research-based information focused on technology, reform movements, and communication techniques designed to prepare school personnel for positive public relations programs and support for schools. Field experience component.

INSL7530 - Assmnt/Eval: Improve. In Tchng

General

College/School
Education and Human Sciences

Course Title
Assmnt/Eval: Improve. In Tchng

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
INSL

Course Number
7530

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description
Current trends in curriculum development; defining objectives; planning for improvement; organization of instructional materials; curriculum evaluation. Advanced study of innovations, recent trends, research findings, and evaluation relating to the improvement of teaching.

ISE5410 - Systems Simulation

General

College/School
Engineering

Course Title
Systems Simulation

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Completion of undergraduate, calculus-based statistics and probability course (ENGR 3720 or MATH 3470) and undergraduate course in computer programming (ENGR 1120 or CSC 1300) or consent of instructor. Computer modeling of systems subject to uncertainty, using discrete-event simulation. Topics include the development of system models, selection of statistical distributions, routing decision rules, and the design and analysis of simulation experiments.

ISE5500 - Reliability and Quality Engineering

General

College/School
Engineering

Course Title
Reliability & Quality Engr

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: MATH 3470 or ENGR (CEE) 3720 or equivalent. Basic engineering and statistics principles as well as advanced tools focusing on design of experiments, statistical process control, and reliability engineering are presented. Theoretical and practical methods to improve the capability of systems to perform their designated functionalities, to predict the probability of their functioning without failures in certain environments for desired periods, to assess their maintainability, availability and safety based on sampled data, and to make decisions on corrective action and mitigation. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

ISE5710 - Economic Evaluation of Engineering Projects

General

College/School
Engineering

Course Title
Econ Eval of Engr Projects

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Completion of undergraduate, calculus-based probability and statistics course (ENGR 3720 or MATH 3470) or consent of instructor. Engineering economic techniques for analyzing investment opportunities under conditions of risk and uncertainty. The time value of investments and depreciation of capital are also explored.

ISE6460 - Optimization Methods

General

College/School
Engineering

Course Title
Optimization Methods

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
ISE

Course Number
6460

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Completion of undergraduate, calculus-based probability and statistics course (ENGR 3720 or MATH 3470) or consent of instructor. Optimization methods used in modeling of engineering systems. Classical optimization techniques are addressed, including mathematical single-variable and multi-variable approaches, constrained problems, and search techniques. Linear and integer programming problems are addressed. Modern methods involving highly computational methods are also examined.

ISE6500 - Human Factors in Systems Design

General

College/School
Engineering

Course Title
Human Factors in Sys Design

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
ISE

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Completion of undergraduate, calculus-based probability and statistics course (ENGR 3720 or MATH 3470), or consent of instructor. Consideration of human capabilities and limitations in design of technology that supports systems and users. Established engineering practices are covered in Human Factors Engineering design and evaluation methods. The human processing of data is addressed with cognition study and human-machine interfaces.

ISE6800 - Systems Engineering and Life-Cycle Economics

General

College/School
Engineering

Course Title
Sys Engr & Life-Cycle Econ

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
ISE

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Completion of undergraduate, calculus-based probability and statistics course (ENGR 3720 or MATH 3470) or consent of instructor. Analysis of engineering systems for statistical and economic performance. Statistical analysis of system performance is introduced. The risks of system design, project outcomes, and forecasting are presented, mostly in terms of economic performance.

ISE6920 - ISE Professionalism

General

College/School
Engineering

Course Title
ISE Professionalism

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
6920

Credit Hours

Credit Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Prerequisite: Graduate standing in ISE. Various aspects of professionalism from the perspective of industrial and systems engineering. Topics include degree requirements, resources available, research methods, engineering communications, engineering ethics, and professional growth and development.

ISE6950 - Professional Project

General

College/School
Engineering

Course Title
Professional Project

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
6950

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Consent of Instructor based on the completion of at least 24 credit hours in the MSISE program. Individualized professional project that requires the student to demonstrate breadth of knowledge in the ISE discipline, depth in specific areas, and the ability to integrate what has been learned. Written project report and oral presentation are required.

ISE6970 - Special Topics in ISE

General

College/School
Engineering

Course Title
Special Topics in ISE

Academic Level (Course Level)
Graduate

Course Subject Code
ISE

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate standing. Selected topics of current interest in graduate-level industrial and systems engineering that are not covered in existing graduate courses. Course may be repeated for credit if course topics are different.

ISE6990 - Research and Thesis

General

College/School
Engineering

Course Title
Research and Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ISE

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course involves independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis.

Requisites

JOUR5030 - Field Exp/Event Mgmt/ Promotion

General

College/School
Emerging and Integrative Studies

Course Title
Field Exp/Event Mgmt/Promotion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5030

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: Consent of Instructor. This course will provide students with the opportunity to implement skills learned to manage and promote an actual event, either in pairs or small groups.

JOUR5230 - Free Lance Writing

General

College/School
Emerging and Integrative Studies

Course Title
Free Lance Writing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Writing and marketing of feature stories, commentaries, and articles.

Requisites

Simple Requirements

Prerequisite: JOUR2200 Mass Comm/Changing Society is a prerequisite for all other journalism courses.

JOUR5360 - Magazine Prod & Design

General

College/School
Emerging and Integrative Studies

Course Title
Magazine Prod & Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Current trends in magazine production and design. (Same as PC 4360 (5360)). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: JOUR2200 Mass Comm/Changing Society.

JOUR5460 - Pub Relations-Cases/Pract

General

College/School
Emerging and Integrative Studies

Course Title
Pub Relations-Cases/Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 3460 and either JOUR 3350 or JOUR 4360. Practical aspects of public relations emphasized. Case studies considered. Builds on knowledge and expertise acquired in JOUR 3460. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR 3460 and either JOUR3350 News Production and Design or JOUR4360 Magazine Production/Dsgn(JOUR5360 Magazine Prod & Design)

JOUR5500 - Adv Multimedia Storytelling

General

College/School
Emerging and Integrative Studies

Course Title
Adv Multimedia Storytelling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Class hashtag: #TTUjournalism
Prerequisite: JOUR 2200, JOUR 2220, and a "C" or higher in JOUR 3500 (or consent of instructor)
Teaching Methods and Instructional Materials: Lecture, hands-on media production, group projects,
iLearn
Special Instructional Platform/Materials: Smartphone with video camera capability and a portable hard
drive (500 GB or larger) or flash drive (16 GB or larger) to transport your files to and from labs. An SD
card (16 GB or larger) is also recommended for photography and video assignments.

Requisites

Simple Requirements

Prerequisite: JOUR2200 Mass Comm/Changing Society, JOUR2220 News Reporting & Copy Editing, and a "C" or higher in JOUR3500 Visual Storytelling (or consent of instructor)

JOUR5710 - Literary Journalism

General

College/School
Emerging and Integrative Studies

Course Title
Literary Journalism

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 2200 and JOUR 2220. Instruction in the form of the literary essay- both short and book length - through both reading and writing literary essays. Course may be repeated for credit provided content is different.

Requisites

Simple Requirements

JOUR 2200 and JOUR 2220.

JOUR5820 - Advanced Reporting

General

College/School
Emerging and Integrative Studies

Course Title
Advanced Reporting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 3220. Writing and reporting for the commercial media. Students will serve as reporters for the campus newspaper. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR 3220. JOUR2220 News Reporting & Copy Editing.

JOUR5830 - Feature Writing

General

College/School
Emerging and Integrative Studies

Course Title
Feature Writing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 2220. Recommended: JOUR 4820 (5820). Writing and marketing of feature stories, commentaries, and articles. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR2220 News Reporting & Copy Editing. Recommended: JOUR4820 Advanced Reporting (JOUR5820 Advanced Reporting).

JOUR5840 - Spec Prob in Journalism

General

College/School
Emerging and Integrative Studies

Course Title
Spec Prob in Journalism

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Senior standing or consent of instructor. Independent work in mass media research and report writing, or internship programs in print or electronic media, public relations, and other areas. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

JOUR5850 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5850

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
12

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
12

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
12

Course Description
Part-time or full-time employment in a business, industrial, or institutional communications setting, related to student academic and career goals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

JOUR5853 - Internship

General

College/School
Emerging and Integrative Studies

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
5853

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR2200 Mass Comm/Changing Society is a prerequisite for all other journalism courses.

JOUR5856 - Internship

General

College/School
Emerging and Integrative Studies

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
5856

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR2200 Mass Comm/Changing Society is a prerequisite for all other journalism courses.

JOUR5859 - Internship

General

College/School
Emerging and Integrative Studies

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
5859

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR2200 Mass Comm/Changing Society is a prerequisite for all other journalism courses.

JOUR5860 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5861 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5861

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5862 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5862

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5863 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5863

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5864 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5864

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5865 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5865

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5866 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5866

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5867 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5867

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5868 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5868

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5869 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5869

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR5870 - Independent Study

General

College/School
Emerging and Integrative Studies

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
5870

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and/or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study.

Requisites

Simple Requirements

Prerequisite: Senior standing or consent of instructor and JOUR2200 Mass Comm/Changing Society.

JOUR5871 - Independent Study

General

College/School
Emerging and Integrative Studies

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5871

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and/or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study.

Requisites

Simple Requirements

Prerequisite: Senior standing or consent of instructor and JOUR2200 Mass Comm/Changing Society.

JOUR5872 - Independent Study

General

College/School
Emerging and Integrative Studies

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5872

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Senior standing or consent of instructor and JOUR 2200. Independent study of an approved topic (area) within mass media research and/or writing related to student academic and career goals under the supervision of a member of the journalism faculty. Up to nine credit hours may be earned by independent study.

Requisites

Simple Requirements

Prerequisite: Senior standing or consent of instructor and JOUR2200 Mass Comm/Changing Society.

JOUR5930 - Advanced Copy Editing

General

College/School
Emerging and Integrative Studies

Course Title
Advanced Copy Editing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5930

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: JOUR 2220 . Additional training in editing copy. Laboratory work may be required on the university student newspaper. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: JOUR2220 News Reporting & Copy Editing

JOUR5940 - Technical Editing

General

College/School
Emerging and Integrative Studies

Course Title
Technical Editing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
5940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: JOUR 4930 (5930) , ENGL 3250 , and ENGL 4970 (5970) . JOUR 2200 is a prerequisite for all other journalism courses. Principles and practices of technical editing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

JOUR6450 - PR Management

General

College/School
Emerging and Integrative Studies

Course Title
PR Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This program is meant to introduce many of the key aspects of public relations management through the readings of and understanding of public relations principles and case studies.

JOUR6770 - Media Law and Ethics

General

College/School
Emerging and Integrative Studies

Course Title
Media Law and Ethics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
6770

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course explores the legal and ethical considerations for leadership and decision-making in communication and media settings.

JOUR6860 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6861 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JOUR

Course Number
6861

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6862 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6862

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6863 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6863

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6864 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6864

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6865 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6865

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6866 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6866

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6867 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6867

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6868 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6868

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6869 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6869

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Seminar or lecture course n a selected topic. issue, or interest area in journalism not covered in existing courses. Course may be repeated for credit under a different subtitle, up to nine hours of credit.

JOUR6870 - Social Media Campaigns

General

College/School
Emerging and Integrative Studies

Course Title
Social Media Campaigns

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
JOUR

Course Number
6870

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is dedicated to exploring the new emerging technologies and media influencing business, marketing, public relations, and advertising practices and research. This course will acquaint you with practical knowledge and analytical skills necessary to create, evaluate, and execute social media and mobile campaigns. This course will also provide lectures, iconic and current case studies using social media and mobile, group and individual assignments, and engaged activities that will help you in developing a strong social media skill set.

JOUR6998 - Professional Project

General

College/School
Emerging and Integrative Studies

Course Title
Professional Project

Academic Level (Course Level)
Graduate

Course Subject Code
JOUR

Course Number
6998

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The Professional Project is the last requirement for the MPS Degree, serving as the integrative culmination of the program of study. It should be a substantial piece of independent research or a significant professional project that is logically consistent with the theme and content of the program of study. Student's work should demonstrate familiarity with and understanding of a body of professional literature related to a specific topic. The Project should grow out of the program of study and should demonstrate the student's ability to use the knowledge gained from this program of study.

JRSM6450 - Public Relations Mgmt

General

College/School
TN eCampus Degree

Course Title
Public Relations Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
JRSM

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

LAW5100 - Business Law & Legal Env

General

College/School
Business

Course Title
Business Law & Legal Env

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LAW

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic legal instruments and legal principles comprising the legal environment of business, integrated with contemporary ethical, social, and political issues.

Requisites

Simple Requirements

Prerequisites: None

LDSP6000 - Current Issues in Leadership

General

College/School
TN eCampus Degree

Course Title
Current Issues in Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LDSP

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

LING5511 - Intro to Descriptive Ling

General

College/School
Arts and Sciences

Course Title
Intro to Descriptive Ling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LING

Course Number
5511

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Introduction to descriptive analysis of language: phonology, morphology, lexicon, and syntax. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Cross-listed with ENGL 5511.

Requisites

Simple Requirements

Prerequisites: None

LING5521 - Hist-English Language

General

College/School
Arts and Sciences

Course Title
Hist-English Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LING

Course Number
5521

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

History of English from its origins to the present, emphasis upon historical development of English sounds, word structure, and syntax. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

LING5531 - Grammar and Language

General

College/School
Arts and Sciences

Course Title
Grammar and Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LING

Course Number
5531

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Grammatical structure of English in relation to dialect and register with some emphasis on historical and potential changes in grammar. Course may be repeated provided the content is different each time.

Requisites

LING5541 - Topics in Linguistics/Language

General

College/School
Arts and Sciences

Course Title
Topics in Linguistics/Language

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LING

Course Number
5541

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of specific aspects of language and/or linguistic study, such as Old and Middle English, the language of dialect literature, or American English dialects. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. Course may be repeated provided the conent is different each time.

Requisites

LING5561 - American English

General

College/School
Arts and Sciences

Course Title
American English

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LING

Course Number
5561

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This class will examine American English from multiple cultural and linguistic angles and allow the students to develop their own understanding of how the language around them shapes their lives.

Requisites

Simple Requirements

Prerequisites: None

LSCI5570 - Young Adult Literature

General

College/School
Education and Human Sciences

Course Title
Young Adult Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
5570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A survey of young adult literature appropriate for middle and high school students with a focus on contemporary and diverse works. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

LSCI6010 - Class & Catalog Of Med & Mtrl

General

College/School
Education and Human Sciences

Course Title
Class & Catalog Of Med & Mtrl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Procedures for selecting, organizing, classifying, and cataloging school library materials. Collection development of print, digital, and other resources for the school library.

LSCI6550 - Contemporary Children's Lit

General

College/School
Education and Human Sciences

Course Title
Contemporary Children's Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Through the lens of the psychology of reading, a survey of contemporary and diverse children's literature and the authors and illustrators who create the books.

LSCI6600 - Lit Across the Curriculum

General

College/School
Education and Human Sciences

Course Title
Lit Across the Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Uses of literature in English/language arts, science, social studies, math, and other curricular areas. Equal emphasis on enhancement of content areas and integration across content areas.

LSCI6800 - Library Practicum

General

College/School
Education and Human Sciences

Course Title
Library Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised field experience for students in library science in two (2) or more school libraries at various grade levels. 100 hours of experience required. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better
A minimum grade of B is required to meet degree requirements for licensure candidates.

LSCI7000 - Info Literacy Tools/Services

General

College/School
Education and Human Sciences

Course Title
Info Literacy Tools/Services

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
7000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

A thorough analysis of the AASL National School Library Standards and how the school librarian uses them to support the learning community and its stakeholders.

LSCI7030 - Admin of the School Library

General

College/School
Education and Human Sciences

Course Title
Admin of the School Library

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
7030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

An examination of the roles the school librarian in leadership, collaboration, advocacy, professional networking, and professional learning through the management of the school library.

LSCI7040 - Tech Engmnt/Support-Libraries

General

College/School
Education and Human Sciences

Course Title
Tech Engmnt/Support-Libraries

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Active engagement with emerging technologies and makerspaces appropriate for modern school libraries and their support of learning communities.

LSCI7500 - Contemporary Children’s and Young Adult Literature

General

College/School
Education and Human Sciences

Course Title
Contemp Children’s/YA Lit

Academic Level (Course Level)
Doctoral, Graduate, Specialist in Education

Course Subject Code
LSCI

Course Number
7500

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Explore exceptional contemporary children’s and young adult literature, including the authors and illustrators responsible; to survey how readers engage in the act of reading and with the content of text and images.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

LSCI7570 - Contemporary Young Adult Lit

General

College/School
Education and Human Sciences

Course Title
Contemporary Young Adult Lit

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
LSCI

Course Number
7570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Engagement and research into contemporary young adult literature, issues of diversity and inclusion, and incorporating YAL into the literacy goals of the learning community.

LSCI7800 - Library Practicum

General

College/School
Education and Human Sciences

Course Title
Library Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
LSCI

Course Number
7800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Supervised field experience for students in library science in two (2) or more school libraries at various grade levels. 100 hours of experience required. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Fulfill ALL of the following requirements:
Full admission to the Teacher Education Program.

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better
A minimum grade of B is required to meet degree requirements for licensure candidates.

MATH5010 - Modern Algebra I

General

College/School
Arts and Sciences

Course Title
Modern Algebra I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Groups and subgroups including cyclic, abelian, finite; permutation groups, group homomorphisms, cosets and Lagrange's Theorem, normal subgroups and factor groups. Rings including integral domains, unique factoraization domains and Euclidean domains, ideals and factor rings, ring homomorphisms, fields and their extensions, geometric constructions.

Requisites

Simple Requirements

Prerequisite: Grade of C or better in Math 2010 and MATH3400 Intro/ Concepts of Math.

MATH5020 - Modern Algebra II

General

College/School
Arts and Sciences

Course Title
Modern Algebra II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Groups and subgroups including cyclic, abelian, finite; permutation groups, group homomorphisms, cosets and Lagrange's Theorem, normal subgroups and factor groups. Rings including integral domains, unique factoraization domains and Euclidean domains, ideals and factor rings, ring homomorphisms, fields and their extensions, geometric constructions.

Requisites

Simple Requirements

Prerequisite: Grade of C or better in MATH4010 Modern Algebra I(MATH5010 Modern Algebra I).

MATH5050 - Number Theory

General

College/School
Arts and Sciences

Course Title
Number Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Properties of integers, division algorithms, prime numbers, diophantine equations, congruences. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor or C or better in MATH3400 Intro/ Concepts of Math

MATH5060 - Topics in Cryptography

General

College/School
Arts and Sciences

Course Title
Topics in Cryptography

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamental concepts of cryptography presented with mathematical background (including groups, fields, elements of number theory, probability and statistics). Special attention will be given to the RSA algorithm, Elliptic Curve Cryptography, the ElGamal public key cryptosystem, Diffie-Hellman key exchange and pseudo random number generators.

Requisites

Simple Requirements

Prerequisite: C or better in MATH2010 Introduction to Linear Algebra and C or better in either MATH3400 Intro/Concepts of Math or CSC2700 Discrete Structures for CSC.

MATH5110 - Advanced Calculus I

General

College/School
Arts and Sciences

Course Title
Advanced Calculus I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Rigorous treatment of functions of one and several variables, improper integrals, sequences, infinite series, uniform convergence and applications. Students are expected to improve their ability to work in an abstract setting using precise definitions and formal proofs and to present their work in class. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4110 Advanced Calculus I(MATH5110 Advanced Calculus I): C or better in MATH3400 Intro/Concepts of Math or consent of instructor; MATH4120 Advanced Calculus II(MATH5120 Advanced Calculus II): C or better in MATH4110 Advanced Calculus I (MATH5110 Advanced Calculus I).

MATH5120 - Advanced Calculus II

General

College/School
Arts and Sciences

Course Title
Advanced Calculus II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Rigorous treatment of functions of one and several variables, improper integrals, sequences, infinite series, uniform convergence and applications. Students are expected to improve their ability to work in an abstract setting using precise definitions and formal proofs and to present their work in class. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4110 Advanced Calculus I (MATH5110 Advanced Calculus I): C or better in MATH3400 Intro/Concepts of Math or consent of instructor; MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II): C or better in MATH4110 Advanced Calculus I (MATH5110 Advanced Calculus I).

MATH5210 - Numerical Analysis I

General

College/School
Arts and Sciences

Course Title
Numerical Analysis I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Iterative methods for nonlinear equations, computational error analysis, convergence of iterative techniques, interpolation, numerical differentiation and integration, approximate solutions of initial-value problems, boundary-value problems, and nonlinear systems, direct and iterative methods for linear systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4210 Numerical Analysis I (MATH5210 Numerical Analysis I): C or better in MATH 1920 (or consent of instructor for MATH5210 Numerical Analysis I); MATH4220 Numerical Analysis II (5220): C or better in MATH 2120 or consent of instructor.

MATH5220 - Numerical Analysis II

General

College/School
Arts and Sciences

Course Title
Numerical Analysis II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Iterative methods for nonlinear equations, computational error analysis, convergence of iterative techniques, interpolation, numerical differentiation and integration, approximate solutions of initial-value problems, boundary-value problems, and nonlinear systems, direct and iterative methods for linear systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4210 Numerical Analysis I (MATH5210 Numerical Analysis I): C or better in MATH1920 Calculus II (or consent of instructor for MATH5210 Numerical Analysis I); MATH4220 Numerical Analysis II (MATH5220 Numerical Analysis II): C or better in MATH2120 Differential Equations or consent of instructor.

MATH5250 - Adv Ord Diff Equations I

General

College/School
Arts and Sciences

Course Title
Adv Ord Diff Equations I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Systems of ordinary differential equations, matrix methods, approximate solutions, stability theory, basic theory of nonlinear equations and differential systems, trajectories, phase space stability, construction of Liapunov functions. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4250 Adv Ord Diff Equations I (MATH5250 Adv Ord Diff Equations I): C or better in MATH 2110 and MATH 2120 (or consent of instructor for MATH5250 Adv Ord Diff Equations I); MATH4260 Adv Ord Diff Equations II (MATH5260 Adv Ord Diff Equations II): C or better in MATH4250 Adv Ord Diff Equations I (MATH5250 Adv Ord Diff Equations I).

MATH5260 - Adv Ord Diff Equations II

General

College/School
Arts and Sciences

Course Title
Adv Ord Diff Equations II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Systems of ordinary differential equations, matrix methods, approximate solutions, stability theory, basic theory of nonlinear equations and differential systems, trajectories, phase space stability, construction of Liapunov functions. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4250 Adv Ord Diff Equations I(MATH5250 Adv Ord Diff Equations I): C or better in MATH 2110 and MATH 2120 (or consent of instructor for MATH5250 Adv Ord Diff Equations I); MATH4260 Adv Ord Diff Equations II (MATH5260 Adv Ord Diff Equations II): C or better in MATH4250 Adv Ord Diff Equations I (MATH5250 Adv Ord Diff Equations I).

MATH5310 - Intro to Topology I

General

College/School
Arts and Sciences

Course Title
Intro to Topology I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topological spaces, continuity, connectedness, compactness, separation axioms, function spaces, and fundamental groups. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4310 Intro to Topology I (MATH5310 Intro to Topology I): C or better in MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5310 Intro to Topology I); MATH4320 Intro to Topology II (MATH5320 Intro to Topology II): C or better in MATH4310 Intro to Topology I (MATH5310 Intro to Topology I).

MATH5320 - Intro to Topology II

General

College/School
Arts and Sciences

Course Title
Intro to Topology II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topological spaces, continuity, connectedness, compactness, separation axioms, function spaces, and fundamental groups. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4310 Intro to Topology I (MATH5310 Intro to Topology I): C or better in MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5310 Intro to Topology I); MATH4320 Intro to Topology II (MATH5320 Intro to Topology II): C or better in MATH4310 Intro to Topology I (MATH5310 Intro to Topology I).

MATH5350 - Introductory Combinatorics

General

College/School
Arts and Sciences

Course Title
Introductory Combinatorics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics to be covered include permutations, combinations, multisets, partitions, recurrence relations, generating functions, and the principle of inclusion-exclusion. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH3400 Intro/Concepts of Math or consent of instructor.

MATH5360 - Graph Theory

General

College/School
Arts and Sciences

Course Title
Graph Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamental concepts of undirected and directed graphs, trees, connectivity, traversability, planarity, colorability, network flows, and matching theory. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH3400 Intro/Concepts of Math or consent of instructor.

MATH5410 - Differential Geometry

General

College/School
Arts and Sciences

Course Title
Differential Geometry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Geometry of curves and surfaces in three-dimensional space. Calculus on surfaces, curvature and Riemannian geometry. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH 2010, 2110, and MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5410 Differential Geometry).

MATH5470 - Probability & Statistics I

General

College/School
Arts and Sciences

Course Title
Probability & Statistics I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical foundations of elementary statistical methods, application and theory, probability in discrete and continuous distribution, correlation and regression, sampling distributions, significance tests. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH 2110 or consent of instructor.

MATH5480 - Probability & Statistics II

General

College/School
Arts and Sciences

Course Title
Probability & Statistics II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5480

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical foundations of elementary statistical methods, application and theory, probability in discrete and continuous distribution, correlation and regression, sampling distributions, significance tests. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH 2110 or consent of instructor. C or better in MATH4470 Probability & Statistics I (MATH5470 Probability & Statistics I).

MATH5510 - Adv Math for Engineers

General

College/School
Arts and Sciences

Course Title
Adv Math for Engineers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fourier series, Sturm-Liouville problems, orthogonal functions, Legendre polynomials, Bessel functions, separable partial differential equations (e.g., heat, wave, and Laplace equations), and other topics. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH 2110 and MATH 2120.

MATH5530 - Linear Algebra I

General

College/School
Arts and Sciences

Course Title
Linear Algebra I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A theoretical study of vector spaces, bases and dimensions, subspaces, linear transformations, dual spaces, eigenvalues and eigenvectors, inner product speaces, spectral theory, duality, quadratic and bilinear forms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4530 Linear Algebra I (MATH5530 Linear Algebra I): C or better in MATH 2010 and MATH3400 Intro/Concepts of Math; MATH4540 Linear Algebra II (MATH5540 Linear Algebra II): C or better in MATH4530 Linear Algebra I (MATH5530 Linear Algebra I).

MATH5540 - Linear Algebra II

General

College/School
Arts and Sciences

Course Title
Linear Algebra II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A theoretical study of vector spaces, bases and dimensions, subspaces, linear transformations, dual spaces, eigenvalues and eigenvectors, inner product speaces, spectral theory, duality, quadratic and bilinear forms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MATH4530 Linear Algebra I (MATH5530 Linear Algebra I): C or better in MATH 2010 and MATH3400 Intro/Concepts of Math; MATH4540 Linear Algebra II (MATH5540 Linear Algebra II): C or better in MATH4530 Linear Algebra I (MATH5530 Linear Algebra I).

MATH5550 - Mathematics of Investment I

General

College/School
Arts and Sciences

Course Title
Mathematics of Investment I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: C or better in MATH 1920 or consent of instructor. Topics include examination of annuities, loans, bonds and other securities, portfolio, immunization, interest rate swaps.

Requisites

MATH5560 - Mathematics of Investment II

General

College/School
Arts and Sciences

Course Title
Mathematics of Investment II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics include derivative securities, mathematical models of financial risk management, and corporate finance.

Requisites

Simple Requirements

Prerequisite: C or better in both MATH 4550/5550 and MATH 4470/5470, or consent of instructor.

MATH5610 - History of Mathematics I

General

College/School
Arts and Sciences

Course Title
History of Mathematics I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The development of mathematics and its relation to the development of civilization prior to the beginnings of calculus. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5610 History of Mathematics I).

MATH5620 - History of Mathematics II

General

College/School
Arts and Sciences

Course Title
History of Mathematics II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
History of mathematics from the beginnings of calculus through the modern times. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5620 History of Mathematics II).

MATH5710 - Vector Analysis

General

College/School
Arts and Sciences

Course Title
Vector Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The algebra and the differential and integral calculus of vectors; applications to geometry and mechanics. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: C or better in MATH 2110.

MATH5750 - Category Theory of Sets

General

College/School
Arts and Sciences

Course Title
Category Theory of Sets

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Abstracts sets and mappings, categories, sums, universal property, monomorphisms and parts, finite inverse limits, colimits, epimorphisms, the Axiom of Choice, mapping sets and exponentials, covariant and contravariant functionality of function spaces, Cantor's diagonal argument, powers sets, variable sets, models of additional variation, selected applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: C or better in MATH3400 Intro/Concepts of Math (or consent of instructor for MATH5750 Category Theory of Sets).

MATH5810 - Intro to Quantum Computing

General

College/School
Arts and Sciences

Course Title
Intro to Quantum Computing

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: C or better in MATH 2010 or consent of instructor. Fundamental concepts of quantum computing presented with the necessary mathematical background. Special attention will be given to the fundamental concepts such as the basic mathematical model of quantum probability and quantum systems: quantum states, Bloch sphere, classical reversible computation model, quantum computation model: qubits, quantum gates and measurement, basic quantum algorithms: Deutsch-Josza's, Grover's, quantum Fourier transform and Shor's algorithm.

MATH5850 - Comp Algebraic Geometry I

General

College/School
Arts and Sciences

Course Title
Comp Algebraic Geometry I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Affine varieties and polynomial ideals. Groebner bases, elimination theory, Hilbert's Nullstellensatz, Zariski closure, decomposition into irreducible varieties.

Requisites

Simple Requirements

Prerequisites: C or better in MATH 2010, and C or better in MATH3400 Intro/ Concepts of Math or equivalent; or consent of instructor for MATH5850 Comp Algebraic Geometry I

Additional recommended prerequisite: MATH3510 Modern Algebra I or any other 4000/5000 level mathematics course in which proofs are required.

MATH5860 - Comp Algebraic Geometry II

General

College/School
Arts and Sciences

Course Title
Comp Algebraic Geometry II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Polynomial and rational functions on a variety, projective varieties, the dimension of a variety, selected applications in robotics, automatic theorem proving, and invariant theory of finite groups.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4850 Comp Algebraic Geometry I (MATH5850 Comp Algebraic Geometry I).

MATH5910 - Directed Readings

General

College/School
Arts and Sciences

Course Title
Directed Readings

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5910

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Prerequisite: Consent of instructor. These courses provide an opportunity for individual reading and study under the supervision of a qualified staff member. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

MATH5920 - Directed Readings

General

College/School
Arts and Sciences

Course Title
Directed Readings

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5920

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
These courses provide an opportunity for individual reading and study under the supervision of a qualified staff member. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH5950 - Topics in Mathematics

General

College/School
Arts and Sciences

Course Title
Topics in Mathematics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. A formal course in any area where there is no other course offering. May be taken more than once, provided that the topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

MATH6001 - Communicating Mathematics I

General

College/School
Arts and Sciences

Course Title
Communicating Mathematics I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
MATH

Course Number
6001

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
1

Lab Hours

Lab Hours Min:
2

Course Description
This course provides practical training in the teaching of mathematics at the pr-ecalculus level and the uses of technology in the mathematics classroom.

Requisites

Simple Requirements

Prerequisites: None

MATH6010 - Functional Analysis I

General

College/School
Arts and Sciences

Course Title
Functional Analysis I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Metric spaces, normed and Banach spaces, inner product and Hilbert spaces. Fundamental theorems for normed and Banach spaces and their applications. Linear operators on normed and Hilbert spaces.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6020 - Functional Analysis II

General

College/School
Arts and Sciences

Course Title
Functional Analysis II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Metric spaces, normed and Banach spaces, inner product and Hilbert spaces. Fundamental theorems for normed and Banach spaces and their applications. Linear operators on normed and Hilbert spaces.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6070 - App Linear Stat Meth I

General

College/School
Arts and Sciences

Course Title
App Linear Stat Meth I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6070

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Regression analysis in the context of classical linear, nonlinear, generalized linear, and time series models.

Requisites

Simple Requirements

Prerequisite: Consent of Instructor.

MATH6080 - App Linear Stat Meth II

General

College/School
Arts and Sciences

Course Title
App Linear Stat Meth II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6080

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Regression analysis in the context of classical linear, nonlinear, generalized linear, and time series models.

Requisites

Simple Requirements

Prerequisite: B or better in MATH6070 App Linear Stat Meth I or consent of instructor.

MATH6110 - Abstract Algebra I

General

College/School
Arts and Sciences

Course Title
Abstract Algebra I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An extensive treatment of groups, semigroups, integral domains, rings and ideals, fields, and Galois fields

Requisites

Simple Requirements

Prerequisite: C or better in MATH4010 Modern Algebra I/MATH5010 Modern Algebra I or consent of instructor.

MATH6120 - Abstract Algebra II

General

College/School
Arts and Sciences

Course Title
Abstract Algebra II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An extensive treatment of groups, semigroups, integral domains, rings and ideals, fields, and Galois fields

Requisites

Simple Requirements

Prerequisite: C or better in MATH6110 Abstract Algebra I or consent of instructor.

MATH6150 - Mathematical Modeling

General

College/School
Arts and Sciences

Course Title
Mathematical Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Applications of mathematics to real world problems with emphasis on problem definition, research, solution, and written report presentation.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6170 - Experimental Design I

General

College/School
Arts and Sciences

Course Title
Experimental Design I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to basic concepts of experimental design, fundamental assumptions in analysis of variance, multiple comparison tests, complete randomized design, general linear model approach to ANOVA, various experimental designs, incomplete block designs, factorial experiments, fractional factorial experiments, response surface methods, repeated measure designs.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6180 - Experimental Design II

General

College/School
Arts and Sciences

Course Title
Experimental Design II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6180

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to basic concepts of experimental design, fundamental assumptions in analysis of variance, multiple comparison tests, complete randomized design, general linear model approach to ANOVA, various experimental designs, incomplete block designs, factorial experiments, fractional factorial experiments, response surface methods, repeated measure designs.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6210 - Topology I

General

College/School
Arts and Sciences

Course Title
Topology I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics in point-set topology, homotopy theory, triangulated spaces, homology theory, other topics in topology.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4320 Intro to Topology II (MATH5320 Intro to Topology II) or consent of instructor.

MATH6220 - Topology II

General

College/School
Arts and Sciences

Course Title
Topology II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics in point-set topology, homotopy theory, triangulated spaces, homology theory, other topics in topology.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4320 Intro to Topology II (MATH5320 Intro to Topology II) or consent of instructor.

MATH6240 - Reprsntatns/Chrctrs-Groups I

General

College/School
Arts and Sciences

Course Title
Reprsntatns/Chrctrs-Groups I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6240

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
FG-modules, reducibility, group algebras, FG-homomorphisms, Maschke's Theorem, Schur's Lemma, irreducible modules, characters, inner products of characters, character tables, orthogonality relations.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4010 Modern Algebra I/MATH5010 Modern Algebra I while C or better in MATH4530 Linear Algebra I/MATH5530 Linear Algebra I is recommended, or consent of instructor.

MATH6250 - Reprsntatns/Chrctrs-Groups II

General

College/School
Arts and Sciences

Course Title
Reprsntatns/Chrctrs-Groups II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Normal subgroups and lifted characters, tensor products, restriction to a subgroup, induced modules and characters, Frobenius reciprocity relation, applications to group theory such as real representations, groups of order pq, p-groups, characters of GL(2,q), symmetric groups, Burnside's Theorem, and molecular vibrations.

Requisites

Simple Requirements

Prerequisite: C or better in MATH6240 Reprsntatns/Chrctrs-Groups I.

MATH6270 - Mathematical Statistics

General

College/School
Arts and Sciences

Course Title
Mathematical Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6270

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Statistical hypothesis, uniform most powerful tests, sufficient statistics, completeness, Roa-Cramer Inequality, sequential probability ratio test, analysis of variance, multiple comparisons, nonparametric techniques.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6310 - Complex Analysis I

General

College/School
Arts and Sciences

Course Title
Complex Analysis I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Complex numbers, calculus of complex variables, analytic function. Cauchy's Theorem and complex integration, power series including Taylor's and Laurent's, residue theory with applications, conformal mapping with physical applications.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6320 - Complex Analysis II

General

College/School
Arts and Sciences

Course Title
Complex Analysis II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Complex numbers, calculus of complex variables, analytic function. Cauchy's Theorem and complex integration, power series including Taylor's and Laurent's, residue theory with applications, conformal mapping with physical applications.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6370 - Prob & Stochast Proc I

General

College/School
Arts and Sciences

Course Title
Prob & Stochast Proc I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability theory of sets, random variable distribution and characteristic functions, convergence, limits and law of large numbers, convolutions, compound distribution, recurrent events, random walk models, Markov chains, homogeneous, nonhomogeneous, and queuing processes.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4480 Probability & Statistics II (MATH5480 Probability & Statistics II) or consent of instructor.

MATH6380 - Prob & Stocast Proc II

General

College/School
Arts and Sciences

Course Title
Prob & Stocast Proc II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6380

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability theory of sets, random variable distribution and characteristic functions, convergence, limits and law of large numbers, convolutions, compound distribution, recurrent events, random walk models, Markov chains, homogeneous, nonhomogeneous, and queuing processes.

Requisites

Simple Requirements

Prerequisite: C or better in MATH6370 Prob & Stochast Proc I.

MATH6410 - Real Analysis 1

General

College/School
Arts and Sciences

Course Title
Real Analysis 1

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory of Lebesque measure and integration, Lp spaces. Integration in locally compact space.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6420 - Real Analysis II

General

College/School
Arts and Sciences

Course Title
Real Analysis II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory of Lebesque measure and integration, Lp spaces. Integration in locally compact space.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4120 Advanced Calculus II (MATH5120 Advanced Calculus II) or consent of instructor.

MATH6450 - Adv Theory of Computation

General

College/School
Arts and Sciences

Course Title
Adv Theory of Computation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A rigorous treatment of the theory of computation. Topics such as: computable functions, the Church-Turing thesis, complexity theory, and P vs NP.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor (previous coursework involving proofs and some programming experience are needed).

MATH6460 - Comp Meth/Graphics & Modeling

General

College/School
Arts and Sciences

Course Title
Comp Meth/Graphics & Modeling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6460

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Mathematical methods for graphics and modeling. Topics such as: 3-D transformations, ray tracing, rendering, image processing, and compression.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor (previous coursework involving proofs and some programming experience are needed).

MATH6470 - Environmental Statistics

General

College/School
Arts and Sciences

Course Title
Environmental Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course covers statistical analysis used in environmental modeling. Topics include finite population parameter estimation, spatial sampling techniques, animal population size estimation, variogram estimation, kriging, logistic regression, and survival analysis. Familiarity with computers is necessary. Also necessary is a background in calculus including differentiation and integration of transcendental functions and series.

Requisites

Simple Requirements

Prerequisite: MATH6070 App Linear Stat Meth I or MATH6170 Experimental Design I or their equivalents.

MATH6510 - Finite Difference Solut

General

College/School
Arts and Sciences

Course Title
Finite Difference Solut

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Approximate solutions of boundary and initial value problems using the finite difference method. Elliptic, parabolic, and hyperbolic PDE's. Numerical differentiation. Solution methods for linear systems.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4510 Adv Math for Engineers (MATH5510 Adv Math for Engineers) or consent of instructor.

MATH6520 - Fin Element Sol-Diff Equ

General

College/School
Arts and Sciences

Course Title
Fin Element Sol-Diff Equ

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Mathematical foundations of the finite element method. Approximate solutions of PDE's. Polynomial interpolation. Variational techniques. Numerical integration. Solution methods for linear systems. Isoparametric technique.

Requisites

Simple Requirements

Prerequisite: C or better in MATH4510 Adv Math for Engineers (MATH5510 Adv Math for Engineers) or consent of instructor.

MATH6530 - Integral Equations/Apps

General

College/School
Arts and Sciences

Course Title
Integral Equations/Apps

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Volterra and Fredholm equations. Green's functions, Hilbert-Schmidt and Fredholm theories. Neumann series, iterative methods.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6540 - Calc Of Variation & Appl

General

College/School
Arts and Sciences

Course Title
Calc Of Variation & Appl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Euler equation, constraints, Lagrange multipliers, Ritz method, applications.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6610 - Operational Mathematics

General

College/School
Arts and Sciences

Course Title
Operational Mathematics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integral transforms (Laplace, Fourier) inversion and convolution theorems, applications.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6700 - Graph Theory

General

College/School
Arts and Sciences

Course Title
Graph Theory

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fundamental concepts of undirected and directed graphs, trees, connectivity, traversability, colorability, network flows, matchings and coverings, Ramsey theory and graph minors.

Requisites

Simple Requirements

Prerequisite: C or better grade in MATH3400 Intro/Concepts of Math or consent of instructor.

MATH6810 - Partial Differ Equations

General

College/School
Arts and Sciences

Course Title
Partial Differ Equations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
First and second order PDE's, wave, heat, and Laplace's equations, applications to boundary and eigen-value problems of mathematics, physics, and engineering.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MATH6900 - Mathematics Seminar

General

College/School
Arts and Sciences

Course Title
Mathematics Seminar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6900

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Requisites

MATH6910 - Special Topics in Math

General

College/School
Arts and Sciences

Course Title
Special Topics in Math

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6910

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Consent of instructor. Individual study of advanced mathematical topics in fields of interest under the supervision of a qualified staff member.

Requisites

MATH6920 - Special Topics in Math

General

College/School
Arts and Sciences

Course Title
Special Topics in Math

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6920

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Consent of instructor. Individual study of advanced mathematical topics in fields of interest under the supervision of a qualified staff member.

Requisites

MATH6921 - Special Topics in Math

General

College/School
Arts and Sciences

Course Title
Special Topics in Math

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6921

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

MATH6950 - Advanced Topics in Mathematics

General

College/School
Arts and Sciences

Course Title
Advanced Topics in Mathematics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6950

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: Consent of instructor. A formal course in any area in which there is no other course offering. May be taken more than once proivded the content is different.

Requisites

MATH6990 - Research & Thesis

General

College/School
Arts and Sciences

Course Title
Research & Thesis

Academic Level (Course Level)
Graduate

Course Subject Code
MATH

Course Number
6990

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
6

Requisites

MATH6991 - Research & Ind Study

General

College/School
Arts and Sciences

Course Title
Research & Ind Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MATH

Course Number
6991

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Consent of instructor. The purpose of this course is to foster research and independent study at the graduate level in mathematics or statistics. Students will independently study a chosen area of mathematics, explore open and significant problems, draw conclusions, and, if applicable, participate in problem solving via consulting. Students will be required to give presentations on their own investigations and conclusions, and write a research paper.

Requisites

MATH7910 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
MATH

Course Number
7910

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Individual study of advanced topics in mathematics, statistics or data science under the supervision of a qualified staff member.

Requisites

Simple Requirements

Prerequisite: Consent of Instructor.

MATH7920 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
MATH

Course Number
7920

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Individual study of advanced topics in mathematics, statistics or data science under the supervision of a qualified staff member.

Requisites

Simple Requirements

Prerequisite: Consent of Instructor.

MBA6840 - Field Research Project

General

College/School
Business

Course Title
Field Research Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBA

Course Number
6840

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Research and writing of a business case or research problem. Requires approval of MBA Studies Committee.

MBA6980 - International Experience

General

College/School
Business

Course Title
International Experience

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBA

Course Number
6980

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
A faculty-led, short-term travel-study experience designed to develop knowledge and understanding of international business. Course includes a limited number of pre- and - post-trip class meetings. Topics covered may include host-country cultural differences; economic, political, and legal environment; and international business operations and strategies including marketing, finance, and service methods. Student must be enrolled in the MBA program. Course may be taken for credit only one time.

Requisites

Simple Requirements

Prerequisite: None

MBIO5030 - Marine Invert Zoology

General

College/School
Arts and Sciences

Course Title
Marine Invert Zoology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5030

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
12

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
12

Course Description

Structure, classification, phylogeny, and function in Protozoa through the Lophophorata. Observation of their ecology and behavior. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of biology.

MBIO5040 - Parasites/Marine Animals

General

College/School
Arts and Sciences

Course Title
Parasites/Marine Animals

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5040

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description

Morphology, taxonomy, life histories, and host-parasite relationships. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3110, or 3130, or consent of instructor. BIOL 3200 or BIOL 3230

MBIO5050 - Marine Ecology

General

College/School
Arts and Sciences

Course Title
Marine Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5050

Credit Hours

Credit Hours
Min :
5

Contact Hours

Contact Hours
Min :
5

Billing Hours

Billing Hours
Min :
5

Lecture Hours

Lecture Hours
Min:
5

Course Description
Relationship of marine organisms to their environment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of biology, including General Zoology, General Botany, and Invertebrate Zoology.

MBIO5060 - Fauna and Faunistic

General

College/School
Arts and Sciences

Course Title
Fauna and Faunistic

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5060

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Taxonomy, distribution, trophic relationships, reproductive strategies and adaptations. Emphasis on northern Gulf marshes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of biology and junior standing, or consent of instructor.

MBIO5070 - Marine Aquaculture

General

College/School
Arts and Sciences

Course Title
Marine Aquaculture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5070

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
12

Billing Hours

Billing Hours
Min :
6

Lab Hours

Lab Hours Min:
12

Course Description
Technology, principles, and problems of aquaculture. Emphasis of marine species. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of zoology, including invertebrate and vertebrate zoology of ichthyology.

MBIO5080 - Marine Icthyology

General

College/School
Arts and Sciences

Course Title
Marine Icthyology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5080

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
12

Billing Hours

Billing Hours
Min :
6

Lab Hours

Lab Hours Min:
12

Course Description
Marine Chordata, including lower groups and the mammals and birds. Emphasis on fishes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 12 semester hours of biology and junior standing.

MBIO5090 - Marine Microbiology

General

College/School
Arts and Sciences

Course Title
Marine Microbiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5090

Credit Hours

Credit Hours
Min :
5

Contact Hours

Contact Hours
Min :
5

Billing Hours

Billing Hours
Min :
5

Lab Hours

Lab Hours Min:
5

Course Description
Sampling procedures, taxonomy of marine bacteria, mineralization, microbial, fouling, pollution, and diseases of marine animals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3110 or consent of instructor. BIOL 3200 or BIOL 3230

MBIO5100 - Marine Fisheries Mgmt

General

College/School
Arts and Sciences

Course Title
Marine Fisheries Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5100

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Overview of practical marine fishery management program. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MBIO5200 - Marine Phycology

General

College/School
Arts and Sciences

Course Title
Marine Phycology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5200

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
8

Billing Hours

Billing Hours
Min :
4

Lab Hours

Lab Hours Min:
8

Course Description
Survey of the principal groups of marine algae and maritime flowering plants. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology, including introductory botany, or consent of instructor.

MBIO5210 - Coastal Vegetation

General

College/School
Arts and Sciences

Course Title
Coastal Vegetation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
6

Course Description
Aspects of coastal vegetation. Emphasis on local examples. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 10 semester hours of biology, including general biology.

MBIO5220 - Salt Marsh Plant Ecology

General

College/School
Arts and Sciences

Course Title
Salt Marsh Plant Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5220

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Identification, composition, structure, distribution, primary productivity, ecology, and development. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: General botany, plant taxonomy, plant physiology, general ecology, or consent of instructor.

MBIO5300 - Comp Hist Marine Organisms

General

College/School
Arts and Sciences

Course Title
Comp Hist Marine Organisms

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5300

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
6

Course Description
Identification, composition, structure, distribution, primary productivity, ecology, and development. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: General botany, plant taxonomy, plant physiology, general ecology, or consent of instructor.

MBIO5410 - Marine Chemistry

General

College/School
Arts and Sciences

Course Title
Marine Chemistry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5410

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
12

Billing Hours

Billing Hours
Min :
6

Lab Hours

Lab Hours Min:
12

Course Description
Chemical aspects of oceans and interactions of chemistry, biology, and geology in marine environments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of chemistry, 3-6 semester hours of biology and geology or consent of instructor.

MBIO5440 - Behavior & Neurobiology

General

College/School
Arts and Sciences

Course Title
Behavior & Neurobiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5440

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Behavior, neuroanatomy, and neurophysiology. Emphasis on neural mechanisms underlying behavior. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 16 semester hours of zoology and/or psychology, or consent of instructor.

MBIO5570 - Marine Sci For Teachers

General

College/School
Arts and Sciences

Course Title
Marine Sci For Teachers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Introduction to marine science. For public school teachers. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Biology background or consent of instructor.

MBIO5580 - Marine Sci-Elem Teacher

General

College/School
Arts and Sciences

Course Title
Marine Sci-Elem Teacher

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Materials and methods in teaching marine science to elementary students. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 6 semester hours of biology.

MBIO5900 - Spec Prob-Marine Science

General

College/School
Arts and Sciences

Course Title
Spec Prob-Marine Science

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5900

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Course Description
Research oriented problems reported in writing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: To be set by problem director.

MBIO5910 - Sp Top: Marine Biology

General

College/School
Arts and Sciences

Course Title
Sp Top: Marine Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
5910

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Course Description
Prerequisite: To be set by topics advisor. Special study in a field topic approved by the GCRL topics advisor and the student's institutional advisor. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: To be set by topics advisor.

MBIO6040 - Early Life Hist Marine

General

College/School
Arts and Sciences

Course Title
Early Life Hist Marine

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MBIO

Course Number
6040

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Reproductive strategies and early developmental processes.

Requisites

Simple Requirements

Prerequisite: Ichthyology, Fisheries, Biology, Ecology and/or consent of instructor.

ME5020 - Applied Machine Design

General

College/School
Engineering

Course Title
Applied Machine Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5020

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ME 4010. Design for strength and rigidity under dynamic loads; shaft design; design of joints (threaded fasteners, welds, springs, keys, etc.); design of gear trains; lubrication and bearing design; finite element analysis; and optimization and statistical consideration in design.
Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME 4010 and ME 3610

ME5050 - Lubricat/Bearing Design

General

College/School
Engineering

Course Title
Lubricat/Bearing Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5060 - Machine Vibrations

General

College/School
Engineering

Course Title
Machine Vibrations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3050. Linear vibration of machine elements, lumped parameter multidegree of freedom, and continuous system solutions; computer-aided solutions of linear and nonlinear systems; simple laboratory vibration measurement and comparative vibration analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 3050.

ME5110 - Adv Design Planar Mech

General

College/School
Engineering

Course Title
Adv Design Planar Mech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5120 - Intermediate Dynamics

General

College/School
Engineering

Course Title
Intermediate Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 2330. Rigid-body kinematics, plane and three-dimensional rigid-body kinetics, Lagrangian mechanics, orbital motions, variable mass rockets. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 2330.

ME5140 - Intro To Robotics

General

College/School
Engineering

Course Title
Intro To Robotics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3050 and ME 3060; or ECE 3210 and ECE 3260. Robotic concepts and subsystems; mechanics of robots; sensors and intelligence; actuators; and trajectory planning and control. The combination of ME 3050 and ME 3060 or the combination of ECE 3210 and ECE 3260 may be taken concurrently. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME3050 System Dynamics and ME3060 Dynamic Modeling/ Controls Lab; or ECE 3210 and ECE 3260. The combination of ME 3050 and ME 3060 or the combination of ECE 3210 and ECE 3260 may be taken concurrently.

ME5160 - Experiment Stress Analysis

General

College/School
Engineering

Course Title
Experiment Stress Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5160

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: CEE 3110, MATH 2910. Introduction to theory of elasticity; photoelasticity; theory and application of strain gages and rosettes; brittle coatings; holographic interferometry; moire' analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

CEE 3110 and MATH 2120.

ME5170 - Contin Theories-Material

General

College/School
Engineering

Course Title
Contin Theories-Material

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5180 - Finite Elem Meth/ME Dsgn

General

College/School
Engineering

Course Title
Finite Elem Meth/ME Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5180

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Prerequisites:CEE 3110. Fundamental concepts; displacement-based finite element formulation using energy methods; one-dimensional and two-dimensional finite elements; modeling considerations and convergence; programming and an introduction to a commercial program. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: CEE 3110.

ME5190 - Adv Mechanics Of Materials

General

College/School
Engineering

Course Title
Adv Mechanics Of Materials

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5190

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 3110, MATH 2120, or consent of instructor. Advanced topics; fracture mechanics, elastic support, noncircular shafts, curved beams, thick-walled cylinders, introduction to plates, thin shells of revolution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE 3110 and MATH 2120, or consent of instructor.

ME5210 - Refrigeration & A/C

General

College/School
Engineering

Course Title
Refrigeration & A/C

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3220, ME 3710, and ME 3720. Refrigeration systems and HVAC design concepts; air-conditioning systems, principles of psychrometrics, human comfort, and principles of building load calculations and annual energy use simulations. Students enrolled in the 5000-level class will be required to complete additional work as stated in the syllabus.

ME5220 - Air Conditioning Design

General

College/School
Engineering

Course Title
Air Conditioning Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3220, ME 3710, and ME 3720. Design of heating, cooling and ventilation systems for buildings. Duct system design, pipe system layout, and equipment selection. Students enrolled at the 5220 level will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME3220 Thermodynamics II, ME 3710, ME3720 Fluid Mechanics.

ME5260 - Energy Conversion/Conservation

General

College/School
Engineering

Course Title
Energy Conversion/Conservation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3220, ME 3710, or equivalent. An in-depth study of industrial steam, pumping and compressed air systems in terms of how to reduce system energy consumption.Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME3220 Thermodynamics II, ME 3710, or equivalent.

ME5310 - Gas Dynamics

General

College/School
Engineering

Course Title
Gas Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3220 and ME 3720. Balance laws, shock waves, Prandtl/ Meyer expansion, flow through ducts and nozzles, unstead wave motion, linearized supersonic thin airfoil theory. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME3220 Thermodynamics II and ME 3720.

ME5340 - Propulsion

General

College/School
Engineering

Course Title
Propulsion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5370 - Mechatronics/Intel Machin Engr

General

College/School
Engineering

Course Title
Mechatronics/Intel Machin Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5370

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ECE 2050 (or ECE 2850); ME 3050 and ME 3060. Mechatronics; number systems; microcontroller technology and architecture of 8-bit microcontrollers (e.g. Motorola MC 68H110); assembly language programming; A/D and D/A conversion; parallel I/O; programmable timer operation; interfacing sensors and actuators; applications; team project on design and implementation of a mechatronic system. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ECE2050 Circuits and Electronics I (or ECE2850 Principles of Electric Circuit); ME3050 System Dynamics and ME3060 Dynamic Modeling/ Controls Lab.

ME5380 - Intro - Data Acq & Signal Proc

General

College/School
Engineering

Course Title
Intro - Data Acq & Signal Proc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5380

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: ME 3023, ME 3050 and ME 3060 or Instructor consent. Lab VIEW programming and data acquisition with commercial hardware digital signal processing basics including sampling, analog-to-digital conversion, quantization, aliasing, and Fourier analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 3023, ME3050 System Dynamics, and ME3060 Dynamic Modeling/Controls Lab or Instructor consent.

ME5450 - Design for Manufacturability

General

College/School
Engineering

Course Title
Design for Manufacturability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5450

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ME 3010, CEE 3110. Material and manufacturing process constraints on design shape, size, and quantity; plastic and fibrous composite parts manufacturing; rapid prototyping; design for X; dimensions and tolerances. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME 3010, CEE 3110.

ME5460 - Mech Properties-Material

General

College/School
Engineering

Course Title
Mech Properties-Material

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5460

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: CEE 3110, ME 3010, or consent of instructor. Elastic and anelastic properties, dislocations, slip, plastic deformation, fracture mechanics, creep, fatigue and fatigue crack propagation, materials testing, and introduction to failure analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: CEE 3110, ME 3010, or consent of instructor.

ME5470 - Intdisc Stu/Ceramic Mtrl Proc

General

College/School
Engineering

Course Title
Intdisc Stu/Ceramic Mtrl Proc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5470

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: graduate standing in engineering or science. Materials processing; surface phenomena, particle size reduction; forming; consolidation by sintering and reaction processes; application of fracture mechanics; failure models; research on selected fabrication and synthesis routes for metals, ceramics and their composites; mechanical, chemical and morphological characterization theory and practice; materials design project using several onsite laboratories. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: graduate standing in engineering or science. CHEM 1120, MATH 2120 and PHYS 2110.

ME5480 - Microstructural Analysis

General

College/School
Engineering

Course Title
Microstructural Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5480

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: ME 4460 (5460). Techniques and applications of microstructural analysis; optical microscopy; metallography; electron microscopy; and fractography and failure analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME4460 Mech Properties of Mtrls (ME5460 Mech Properties-Material).

ME5490 - Prop & Selection-Engr Matrls

General

College/School
Engineering

Course Title
Prop & Selection-Engr Matrls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5490

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: ME 3010. An intermediate course in materials engineering emphasizing the interrelations among material properties, microstructure and optimum material selection for design applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 3010.

ME5510 - Aerodynamics

General

College/School
Engineering

Course Title
Aerodynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: ME 3720. Atmospheric fluid statics, ideal fluid dynamics, potential flow, lift and draft estimation, powered flight, glides, takeoffs, landings. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME 3720.

ME5610 - Steam Power Plants

General

College/School
Engineering

Course Title
Steam Power Plants

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3220, ME 3710, and ME 3720. Energy sources, fuels, firing methods, biolers, turbine characteristics, cooling water and cooling towers, dust collection, new developments in energy generation, plant trip. Students enrolled at the 5610 level will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME3220 Thermodynamics II, ME 3710, ME3720 Fluid Mechanics.

ME5620 - Turbomachinery

General

College/School
Engineering

Course Title
Turbomachinery

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3720. Presents a generalized description and unified theory pertaining to the classification, operation, selection and basic design of rotating turbomachines - pumps, fans, compressors, and turbines. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME 3720.

ME5630 - Internal Combustion Engines

General

College/School
Engineering

Course Title
Internal Combustion Engines

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3220, ME 3710, and ME 3720. Ideal fuel/air cycles, heat loss, friction, combustion and detonation, carburetion and fuel injection; air flow, normal overall performance, and extreme performance. Students enrolled at the 5000 level will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME3220 Thermodynamics II, ME3710 Heat Transfer, and ME3720 Fluid Mechanics.

ME5640 - Dynamics Of Machinery II

General

College/School
Engineering

Course Title
Dynamics Of Machinery II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3610. Graphical and analytical synthesis of linkage mechanisms for function generation, motion generation, and path generation. Kinetostatic analysis of linkage mechanisms; engine dynamics, balancing; rigid-body dynamics, time response analysis. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME 3610.

ME5710 - Propulsion

General

College/School
Engineering

Course Title
Propulsion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3220 and ME 3720. Co-requisites: NA. This course presents aerospace propulsive devices as systems, with functional requirements and engineering and environmental limitations along with requirements and limitations that constrain design choices. Both airbreathing and rocket engines are covered, at a level which enables rational integration of the propulsive system into an overall vehicle design. Mission analysis, fundamental performance relations, and exemplary design solutions are presented. Additional assignment is required for graduate students.

Requisites

Simple Requirements

Prerequisite: ME3220 Thermodynamics II and ME3720 Fluid Mechanics.

ME5720 - Thermal Design

General

College/School
Engineering

Course Title
Thermal Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3220, ME 3710, and ME 3720. Introduction to the design of thermofluid devices and systems; general design methodology, modeling, simulation, and optimization; and heat exchangers and prime movers in systems. Students enrolled at the 5720 level will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ME3220 Thermodynamics II, ME 3710, ME3720 Fluid Mechanics.

ME5730 - Numerical Heat Transfer

General

College/School
Engineering

Course Title
Numerical Heat Transfer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3710, ME 3720. Fundamentals of numerical methods; steady and unsteady one-dimensional heat conduction; steady and unsteady multidimensional heat conduction; fully-developed duct flows; one- and two-dimensional convection heat transfer; flow through porous media. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ME 3710, ME 3720.

ME5740 - Transport Phenomena

General

College/School
Engineering

Course Title
Transport Phenomena

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5810 - Automatic Controls

General

College/School
Engineering

Course Title
Automatic Controls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3050. ME 3050 may be taken concurrently. Mathematical modeling of physical systems, control algorithms, stability, transient response, and frequency response.

Requisites

Simple Requirements

Prerequisite: ME3050 System Dynamics. ME 3050 may be taken concurrently.

ME5860 - Fluid Power

General

College/School
Engineering

Course Title
Fluid Power

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME5900 - Special Topics

General

College/School
Engineering

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5900

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Special topics of current interest in mechanical engineering that are not covered in existing courses. Students enrolled at the 5900 level will be required to complete additional work as stated in the syllabus.

ME5920 - Applied Acoustics

General

College/School
Engineering

Course Title
Applied Acoustics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5920

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

ME5930 - Noise Control

General

College/School
Engineering

Course Title
Noise Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
5930

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: Consent of Instructor. Identification and description of noise sources and noise radiation, methods of noise measurement and criteria for noise levels, principles and techniques of noise and vibration control. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

ME6010 - Conduct Heat Transfer

General

College/School
Engineering

Course Title
Conduct Heat Transfer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6010

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisites: MATH 4510, ME 3710. Conduction in steady, periodic, and transient systems; analytical and numerical techniques.

Requisites

Simple Requirements

Prerequisites: MATH4510 Adv Math for Engineers, ME 3710.

ME6030 - Radiation Heat Transfer

General

College/School
Engineering

Course Title
Radiation Heat Transfer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: MATH 4510, ME 3710. Properties and laws of radiation; black and gray absorbing and emitting media, real and ideal systems.

Requisites

Simple Requirements

Prerequisites: MATH4510 Adv Math for Engineers, ME 3710

ME6040 - Intermediate Fluid Mechanics

General

College/School
Engineering

Course Title
Intermediate Fluid Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 3720. Formulation of mass and momentum transfer equations; exact solutions of laminar parallel flows; similarity and approximate solutions; potential flow; laminar momentum boundary layers.

Requisites

Simple Requirements

Prerequisite: ME 3720.

ME6050 - Convection Heat Transfer

General

College/School
Engineering

Course Title
Convection Heat Transfer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 6040, or consent of instructor. Formulation of energy equation; forced and natural convection heat transfer; heat and momentum transfer analogies, exact and approximate solutions; thermal boundary layers.

Requisites

Simple Requirements

Prerequisites: ME6040 Intermediate Fluid Mechanics, or consent of instructor.

ME6210 - Advanced Thermodynamics

General

College/School
Engineering

Course Title
Advanced Thermodynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3210, ME 3220. Thorough, in-depth study of the first and second laws of thermodynamics from a macroscopic perspective, concept of energy and availability, general thermodynamic property relationships, property representation for computerized analyses, mixtures and solutions, chemical reactions.

Requisites

Simple Requirements

Prerequisites: ME3210 Thermodynamics I, ME3220 Thermodynamics II

ME6220 - Availability Analysis

General

College/School
Engineering

Course Title
Availability Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME6250 - Model & Contr-Ther P P

General

College/School
Engineering

Course Title
Model & Contr-Ther P P

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME6330 - Gas Dynamics

General

College/School
Engineering

Course Title
Gas Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

ME6350 - Finite Element Analysis

General

College/School
Engineering

Course Title
Finite Element Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 4130/5130 or CEE 4190/5190 or ME 4180/5180 or consent of instructor. Introduction to analysis of stresses in a continuum by the finite element method. Computer applications.

Requisites

Simple Requirements

Prerequisite: CEE4130 Matrix & Finite Element Method/CEE5130 Matrix & Finite Element Method or CEE4190 Adv Mechanics of Materials/CEE5190 Adv Mechanics of Materials or ME4180 Finite Elem Meth-Mech Dsgn/ME5180 Finite Elem Meth/ME Dsgn or consent of instructor.

ME6360 - Intro to Continuum Mech

General

College/School
Engineering

Course Title
Intro to Continuum Mech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. Tensors, balance, laws, constitutive equations, thermodynamic restrictions, applications.

ME6370 - Vibrations-Continuous Media

General

College/School
Engineering

Course Title
Vibrations-Continuous Media

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: CEE 3110, MATH 4510, ME 3050. Governing equations for strings, bars, and membranes; natural frequencies; normal modes; series solutions; wave propagation; transform methods; characteristics.

Requisites

Simple Requirements

Prerequisites: CEE 3110, MATH4510 Adv Math for Engineers, ME 3050.

ME6410 - Lubrication/Bearing Design

General

College/School
Engineering

Course Title
Lubrication/Bearing Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 3720, ME 4020. Lubricants; hydrostatic and hydrodynamic lubrication; Reynolds equation and computer-aided design and optimization of journal, slider, polar, and air-lubricated bearings; squeeze films and dynamic loading; foil and compliant bearings, elastohydrodynamics, rotor dynamics with lubricant interaction, magnetic tape lubrication; Non-Newtonian lubricants, finite element applications, seals.

Requisites

Simple Requirements

Prerequisites: ME 3720, ME 4020 .

ME6420 - Design-Measurement Sys

General

College/School
Engineering

Course Title
Design-Measurement Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6420

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
5

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Design, synthesis, and analysis of measurement systems; principles of transducers; errors; dynamic response.

ME6430 - Fundamentals of Acoustics

General

College/School
Engineering

Course Title
Fundamentals of Acoustics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: MATH 4510 or consent of instructor. Wave equation and one-dimensional solutions; Reflection and transmission; Absorption of sound waves; sources and receivers.

Requisites

Simple Requirements

Prerequisite: MATH4510 Adv Math for Engineers or consent of instructor.

ME6440 - Applied Acoustics

General

College/School
Engineering

Course Title
Applied Acoustics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: MATH 4510 or consent of instructor. Three-dimensional plane, cylindrical, and spherical waves; waves in enclosures, in horns; architectural acoustics; ultrasonics.

Requisites

Simple Requirements

Prerequisite: MATH 4510 or consent of instructor.

ME6460 - Exper Transport Phenomena

General

College/School
Engineering

Course Title
Exper Transport Phenomena

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6460

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: Consent of instructor. Review of elementary principles of transport phenomena, data acquisition, and data reduction; measurements of temperature by thermocouples and resistance probes; calculation of heat flux; high temperature optical techniques; differential pressure measurement; volume flow measurements; optical measurement of fluid flow.

ME6510 - Adv Motion Programming

General

College/School
Engineering

Course Title
Adv Motion Programming

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6510

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: ME 3610, ME 4640, or ME 4140. Structural analysis and synthesis of mechanisms; mobility of mechanisms; Burmester theory; instantaneous kinematics and curvature theory; design of planar mechanisms for prescribed finite positions, higher order motions, mixed positions, and complex motions; computer aided linkage synthesis.

Requisites

Simple Requirements

Prerequisite: ME 3610, ME 4640 or ME 4140 .

ME6610 - Fatigue & Wear in Mech Dsgn

General

College/School
Engineering

Course Title
Fatigue & Wear in Mech Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 4020 or consent of instructor. Design for life and reliability, consideration of stress-life fatigue, strain-life fatigue, fatigue crack growth, and wear; applications and analysis tools.

Requisites

Simple Requirements

Prerequisites: ME 4020 or consent of instructor.

ME6620 - Plasticity/Creep in Mech Dsgn

General

College/School
Engineering

Course Title
Plasticity/Creep in Mech Dsgn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 4020 or consent of instructor. Design for static strength and creep resistance, consideration of plastic mechanical and thermal stress-strain states; applications and analysis tools.

Requisites

Simple Requirements

Prerequisites: ME 4020 or consent of instructor.

ME6640 - Advanced Robotics

General

College/School
Engineering

Course Title
Advanced Robotics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6640

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ME 4140 or equivalent. Design, analysis, programming, dynamics, and control of robotic systems; mobile robots; walking robots; redundancy and manipulability, applications and projects.

Requisites

Simple Requirements

Prerequisites: ME 4140 or equivalent.

ME6710 - Dynamics of Machinery

General

College/School
Engineering

Course Title
Dynamics of Machinery

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6710

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisites: ME 4640. Relative motion of two- and three-dimensional systems; dynamics of particles and machine elements; Lagrangian mechanics; energy methods, equations of motion and computer-aided solution methods, analysis and synthesis of linear and nonlinear mechanical dynamic systems; dynamics of planar linkages, gear trains, and cam-follower systems; balancing of rotors and mechanisms; engine dynamics.

Requisites

Simple Requirements

Prerequisites: ME 4640

ME6730 - Modal Vibration Analysis

General

College/School
Engineering

Course Title
Modal Vibration Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6730

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: ME 4060 (5060). Fourier transforms. Linear vibration analysis of n degree of freedom mechanical structures. Laboratory experience with rectangular and curved structures. Evaluation of mode shape, natural frequencies and damping coefficients. Computer model compared to a laboratory solution.

Requisites

Simple Requirements

Prerequisite: ME 4060 (5060).

ME6750 - Wireless Comm Sys

General

College/School
Engineering

Course Title
Wireless Comm Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6750

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

ME6760 - Smart Materials and Structures

General

College/School
Engineering

Course Title
Smart Materials and Structures

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6760

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Undergraduate courses in Differential Equations, Mechanics of Materials, and System Dynamics, or consent of the instructor.

ME6810 - Adv Materials Science I

General

College/School
Engineering

Course Title
Adv Materials Science I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 4460 or equivalent. Thermodynamics of irreversible processes, diffusion in the solid state, reaction kinetics, alloy design.

Requisites

Simple Requirements

Prerequisite: ME 4460 or equivalent.

ME6830 - Adv Comp Aid Dsgn & Mfg

General

College/School
Engineering

Course Title
Adv Comp Aid Dsgn & Mfg

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6830

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ME 4020 or consent of instructor. Modeling and simulation methods to understand the impact of product design on manufacturing; transforming CAD geometry into useful modeling representations; thermal and dynamics loads, geometric and material; and structural optimization.

Requisites

Simple Requirements

Prerequisites: ME 4020 or consent of instructor.

ME6910 - Intro to Graduate Research

General

College/School
Engineering

Course Title
Intro to Graduate Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6910

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
1

Billing Hours

Billing Hours Min :
1

Lecture Hours

Lecture Hours Min:
1

Course Description
Prerequisite: Graduate student standing. Research tools and written and oral presentations in Mechanical Engineering; graduate thesis; ethics in research.

ME6920 - Security/Networked Control Sys

General

College/School
Engineering

Course Title
Security/Networked Control Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Undergraduate courses in MATH 2120, ME 3050 and ECE 3210, or consent of instructor.
This course is an introduction to the security of networked control systems. It covers communication protocols and network security issues related to networked control systems. The stability of networked control systems will be investigated to examine the robustness of the control systems. It also covers common types of attacks, model-based and learning detection and compensation techniques for designing secure networked control system.

Requisites

Simple Requirements

Prerequisite: Undergraduate courses in MATH 2120, ME 3050 and ECE 3210, or consent of instructor.

ME6930 - Theory of Elasticity

General

College/School
Engineering

Course Title
Theory of Elasticity

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of instructor. Fundamental laws of continuum mechanics; Cartesian tensors; analysis of stress and strain; two-dimensional problems in rectangular and polar coordinates; torsion of various-shaped shafts.

ME6960 - Non-Thesis Project

General

College/School
Engineering

Course Title
Non-Thesis Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ME

Course Number
6960

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Approval by departmental chairperson. Selected topics of current interest in graduate-level mechanical engineering that are not covered in existing graduate courses.

ME6970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
6970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Prerequisite: Approval by departmental chairperson. Selected topics of current interest in graduate-level mechanical engineering that are not covered in existing graduate courses.

ME6980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ME

Course Number
6980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Prerequisite: Approval by departmental chairperson. Individual or small-group study of topics of current interest in graduate-level mechanical engineering.

ME6990 - Research & Thesis

General

College/School
Engineering

Course Title
Research & Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ME

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This course involves independent research conducted under faculty supervision, leading to the completion and defense of a master's thesis. May be repeated for credit of course topic is different.

ME7040 - Mass Transfer

General

College/School
Engineering

Course Title
Mass Transfer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6050. Mass diffusion in solids, liquids, and gases; transport equations for multicomponent systems; laminar forced and natural convective mass transfer; mass transfer in turbulent flows; interface mass transports.

Requisites

Simple Requirements

Prerequisite: ME 6050.

ME7070 - Fluid Mech of Suspensions

General

College/School
Engineering

Course Title
Fluid Mech of Suspensions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7070

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6040, or 6360, or consent of instructor. Balance laws; constitutive equations; exact solutions; applications.

Requisites

Simple Requirements

Prerequisite: ME 6040, or ME 6360, or consent of instructor.

ME7080 - Ad Viscous Flow

General

College/School
Engineering

Course Title
Ad Viscous Flow

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7080

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6040, or ME 6360, or consent of instructor. Steady and transient solutions of Navier-Stokes equations; advanced similarity solutions; flows with variable thermal properties and viscous dissipation; elementary non-Newtonian flow; stability of laminar flow and transition to turbulence.

Requisites

Simple Requirements

Prerequisites: ME 6040, or ME 6360, or consent of instructor.

ME7090 - Comp Fluid Dynamics

General

College/School
Engineering

Course Title
Comp Fluid Dynamics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7090

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6040, or ME 6360, or consent of instructor. Computation of inviscid, boundary-layer, supersonic, and transonic flows; models of turbulence; compressible Navier-Stokes equations.

Requisites

Simple Requirements

Prerequisite: ME 6040, or ME 6360, or consent of instructor.

ME7100 - Turbulence

General

College/School
Engineering

Course Title
Turbulence

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6040, or ME 6360, or consent of instructor. Balance laws; Reynolds stresses; microscale transport equations; shear layers, statistical theories, measurements.

Requisites

Simple Requirements

Prerequisite: ME 6040, or ME 6360, or consent of instructor.

ME7510 - Space Mechanisms

General

College/School
Engineering

Course Title
Space Mechanisms

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: ME 6360, or ME 6930, or consent of instructor. Methods of analysis and synthesis of spherical and spatial manipulators/mechanisms using displacement matrices, screw vectors, screw matrices and quaternions, type of space mechanisms, mobility criteria; and transmission criteria.

Requisites

Simple Requirements

Prerequisites: ME 6360, or ME 6930, or consent of instructor.

ME7600 - Theories of Plates & Shells

General

College/School
Engineering

Course Title
Theories of Plates & Shells

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 6930 or consent of instructor. Bending and buckling of thin plates and shells. Vibration analysis of plates and shells.

Requisites

Simple Requirements

Prerequisite: CEE 6930 or consent of instructor.

ME7620 - Adv Finite Element Analysis

General

College/School
Engineering

Course Title
Adv Finite Element Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Finite element analysis of coupled differential equations. Higher order and isoparametric element formulations. Applications to problems in stress analysis, vibrations, heat transfer and fluid mechanics. Introduction to commercial programs. Prerequisite: CEE/ME 6350 or consent of instructor.

Requisites

Simple Requirements

Prerequisite: CEE 6350/ME 6350 or consent of instructor.

ME7640 - Theory/Inelastic Mtrl Behavior

General

College/School
Engineering

Course Title
Theory/Inelastic Mtrl Behavior

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7640

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 6930 or ME 6360. Constitutive equations for classical viscoelasticity. Exact solutions for simple constitutive laws. Incremental stress-strain relations for plasticity; yield surface and deformation theories. Application to engineering problems.

Requisites

Simple Requirements

Prerequisite: CEE 6930 or ME6360.

ME7650 - Continuum Theories of Mtrls

General

College/School
Engineering

Course Title
Continuum Theories of Mtrls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 6930 or ME 6360 or consent of instructor. Continuum thermodynamics; balance laws and constitutive equations; applications for simple fluids, solids, thermoelastic solids, thermodiffusion and electrodynamics.

ME7660 - Fracture Mechanics

General

College/School
Engineering

Course Title
Fracture Mechanics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME (CEE) 6930. Griffith-Irwin Theory, stress intensity factors; crack tip stresses; plasticity; fatigue crack propagation; fracture toughness testing; experimental aspects; design applications; special topics.

ME7670 - Fiber-Reinforced Compos Mtrls

General

College/School
Engineering

Course Title
Fiber-Reinforced Compos Mtrls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ME

Course Number
7670

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME (CEE) 6930. Properties of orthotropic lamina; lamination theory; micromechanics; engineering tests; lamina strength theories; laminate strength theories, laminate strength; stress concentration effects.

ME7680 - Theory of Elastic Stability

General

College/School
Engineering

Course Title
Theory of Elastic Stability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7680

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: CEE 6930 or consent of instructor. Beams-columns; elastic buckling of bars and frames; torsional buckling of thin-walled structures; lateral buckling of beams; bending and buckling of thin plates and shells.

Requisites

Simple Requirements

Prerequisite: CEE 6930 or consent of instructor.

ME7720 - Transf Function Synth/Dyn Sys

General

College/School
Engineering

Course Title
Transf Function Synth/Dyn Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7720

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: ME 6710, 6730. Analysis of transfer function derivation, signature analysis of pulse excitation, transfer function synthesis from experimental data.

Requisites

Simple Requirements

Prerequisites: ME 6710, ME 6730.

ME7810 - Adv Materials Scien-II

General

College/School
Engineering

Course Title
Adv Materials Scien-II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ME 6810 or equivalent. Advanced materials science with emphasis on solid state theories. Free electrons. The crystal lattice. Electrons in the lattice. Defect interactions.

Requisites

Simple Requirements

Prerequisite: ME 6810 or equivalent.

ME7970 - Selected Topics

General

College/School
Engineering

Course Title
Selected Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Prerequisite: Approval by departmental chairperson. Selected topics of current interest in graduate-level mechanical engineering that are not covered in existing graduate courses.

ME7980 - Directed Study

General

College/School
Engineering

Course Title
Directed Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
ME

Course Number
7980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
Prerequisite: Approval by departmental chairperson. Individual or small-group study of topics of current interest in graduate-level mechanical engineering.

ME7990 - Research & Dissertation

General

College/School
Engineering

Course Title
Research & Dissertation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
ME

Course Number
7990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description
This entails advance, original research conducted under faculty guidance, culminating in the writing and defense of a doctoral dissertation.

MET5000 - Advanced Foundry Technology

General

College/School
Engineering

Course Title
Advanced Foundry Technology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5000

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisite: MET 3000. Study of advanced foundry processes, gating system design, die/pattern design and mechanization of foundry. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

MET5060 - CNC Concepts, Adv Techq & App

General

College/School
Engineering

Course Title
CNC Concepts, Adv Techq & App

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5060

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Prerequisites: MET 3060 or departmental approval. An in-depth study of programming systems, techniques and applications. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

MET5210 - Prog Logic Contr/Proc Control

General

College/School
Engineering

Course Title
Prog Logic Contr/Proc Control

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5210

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Programmable logic controllers (PLC's) and automated process control; design and implementation of an automatic controlled industrial process. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET 3260 & MET 4200 or departmental approval.

MET5220 - Industrial Automation/Robotics

General

College/School
Engineering

Course Title
Industrial Automation/Robotics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5220

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Studies in the theory and application of industrial automation relating to manufacturing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET 3200 or MET 3260 or departmental approval.

MET5250 - Applied Mechatronics

General

College/School
Engineering

Course Title
Applied Mechatronics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5250

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Introduction to mechatronics systems; modeling of mixed mechatronics systems; microcontroller programming and interfacing; theory, selection, and implementation of sensors and actuators commonly used in mechatronics system; control architectures and case studies in mechatronics system; Introduction of robotics; robot programming; machine vision. Students taking 5000-level need a special project and a paper.

Requisites

Simple Requirements

Prerequisite: MET3260 Industrial Electronics or consent of instructor.

MET5300 - Advanced CAD Techniques

General

College/School
Engineering

Course Title
Advanced CAD Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5300

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
An in-depth course using CAD as a design tool that examines multiview drawings, layers, dimensioning, blocks, and sectional views. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET3301 CAD for Technology, MET 3303 or departmental approval.

MET5310 - Plant Layout/Mtrl Handling

General

College/School
Engineering

Course Title
Plant Layout/Mtrl Handling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5310

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
An analysis of materials movement within industrial organizations. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET3301 CAD for Technology, MET 3303, MET 3713, MET3710 Methods Desgn/Wrk Measurement or departmental approval.

MET5400 - Geometric Dimension/Tolerance

General

College/School
Engineering

Course Title
Geometric Dimension/Tolerance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5400

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course will cover the geometric conformance and tolerancing theory and application pertaining to ANSI/ASME 2009 Y 14.5 Standard via computer graphics and other electronic data systems for design, manufacture, verification, and similar processes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET3301 CAD for Technology or MET 3303 or departmental approval.

MET5430 - Industrial Supervision

General

College/School
Engineering

Course Title
Industrial Supervision

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Supervisory responsibilities in an organization and procedures for meeting these responsibilities. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior or Graduate Standing.

MET5450 - Additive Manufacturing

General

College/School
Engineering

Course Title
Additive Manufacturing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5450

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course prepares students to create a rapid prototyping file from a computer aided design file, determine the prototype for the model or part, and create a production plan for the part. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET3301 CAD for Technology, MET 3303 or departmental approval.

MET5500 - Tool Design

General

College/School
Engineering

Course Title
Tool Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5500

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course covers an integrated treatment of tool design, specification and application by the use of standard tooling data. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: MET2063 Metal Manufacturing Technology, MET 2065, MET3301 CAD for Technology, MET 3303 or departmental approval.

MET5550 - Mntnce, Rplcmnt, Rlblty Engr

General

College/School
Engineering

Course Title
Mntnce, Rplcmnt, Rlblty Engr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5550

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Reliability networks, failure mode and effect analysis, apportionment, availability, maintainability, fault trees and human reliability. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior or graduate standing in engineering, engineering technology or business.

MET5600 - Product Design and Development

General

College/School
Engineering

Course Title
Product Design and Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This is a project-based course that covers modern tools and methods for product design and development. Topics include identifying customer needs, concept generation, product architecture, industrial design, and design-for-manufacturing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior or graduate standing in engineering, engineering technology or business.

MET5650 - Lean Six Sigma Manufacturing

General

College/School
Engineering

Course Title
Lean Six Sigma Manufacturing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5650

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Review of current engineering and technology techniques relevant to manufacturing, service, quality and productivity. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior or graduate standing in engineering, engineering technology or business.

MET5700 - Automation/Mfg Systems

General

College/School
Engineering

Course Title
Automation/Mfg Systems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
General principles of operation and programming of automated systems. Automated assembly, automated manufacturing, and inspection systems. Control of automated manufacturing. Industrial logic systems and programmable logic controllers. Computer numerical control, industrial robotics, and computer integrated manufacturing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior or graduate standing in engineering or engineering technology.

MET5990 - Special Problems

General

College/School
Engineering

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
5990

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
Investigations of industrial topics in the student's area of interest. May be taken under different subtitles to a maximum of six credits. A particular topic may be offered at most twice under the MET 4990 number. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Senior standing.

MET6010 - Environmental Policy

General

College/School
Engineering

Course Title
Environmental Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an overview of environmental policy, policy process, behavior of interest groups and political parties and the actions of policymakers. In addition, the course will examine significant environmental issues such as pollution control, climate change, conservation and biodiversity.

Requisites

Simple Requirements

Prerequisites: Admission to graduate program or consent of instructor.

MET6100 - Mfg Strategy for Sustainability

General

College/School
Engineering

Course Title
Mfg Strategy-Sustainability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6100

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
This course examines the concept of “Manufacturing Strategy for Sustainability” using green materials, methods and technologies that are energy efficient, sustainable and friendly to the environment. It will cover topics on carbon footprint management, sustainable manufacturing process design, and life-cycle assessment.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MET6200 - Energy Management Principles

General

College/School
Engineering

Course Title
Energy Management Principles

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles and technical details of the efficient and effective use of energy to maximize profits, minimize cost and enhance competitive positions.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MET6300 - Alternative Energy Production

General

College/School
Engineering

Course Title
Alternative Energy Production

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles and technical details of various renewable energy technologies (solar, biomass, wind, hydroelectric, geothermal, tidal and wave energy) for the sustainable future. Process design, energy analysis, engineering economics and environmentalassessment of renewable energy systems.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

MET6900 - Internship

General

College/School
Engineering

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Full-time or part-time, on-the-job work performed at a sponsoring entity while under the supervision of an approved advisor in an area related to manufacturing sustainability. Written objectives, a written internship analysis, and a public presentation are required.

Requisites

Simple Requirements

Prerequisites: None

MET6990 - Internship

General

College/School
Engineering

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MET

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Full-time or part-time, on-the-job work performed at a sponsoring entity while under the supervision of an approved advisor in an area related to manufacturing sustainability. Written objectives, a written internship analysis, and a public presentation are required.

Requisites

Simple Requirements

Prerequisites: None

MGMT5210 - Oper & Tech Strategies ETSU

General

College/School
No College Designated

Course Title
Oper & Tech Strategies ETSU

Academic Level (Course Level)
Graduate

Course Subject Code
MGMT

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

MGMT5230 - Strategic Leadership ETSU

General

College/School
No College Designated

Course Title
Strategic Leadership ETSU

Academic Level (Course Level)
Graduate

Course Subject Code
MGMT

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

MKT5200 - Basic Marketing

General

College/School
Business

Course Title
Basic Marketing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The structure of markets, techniques, and tools available to the marketing manager; motivations of buyers.

Requisites

Simple Requirements

Prerequisite: None

MKT5620 - Marketing Research

General

College/School
Business

Course Title
Marketing Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
5620

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: MKT3400 and ECON 3610.

MKT5730 - Marketing Management

General

College/School
Business

Course Title
Marketing Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
5730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: MKT3400, BMGT 3510, and senior standing.

MKT6100 - Strategic Marketing

General

College/School
Business

Course Title
Strategic Marketing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Strategic marketing issues and opportunities that inpact both the marketing process and marking program. Decisions will also consider environmental variables as well as the internal elements of an organization.

Requisites

Simple Requirements

Prerequisites: None

MKT6510 - Services Marketing

General

College/School
Business

Course Title
Services Marketing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
6510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on service organizations and services marketing issues to make students aware of the unique challenges involved in marketing and managing organizations in sectors such as finance, health care, entertainment, hospitality, professional services, retailing, education and transportation. Specific topics will include learning and developing strategies for real life business cases to close potential service gaps such as customer, knowledge, service development/design, performance, and communication gaps that have negative impact on service performance and quality perceptions of customers about the service offering.

Requisites

Simple Requirements

Prerequisites: None

MKT6630 - Entrepr & Small Bus Mgmt

General

College/School
Business

Course Title
Entrepr & Small Bus Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
6630

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course concentrating on the salient issues and management decisions covering entrepreneurship, the formation and management of new business ventures, and the complex managerial process of small business ownership.

Requisites

Simple Requirements

Prerequisites: None

MKT6900 - Special Topics

General

College/School
Business

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MKT

Course Number
6900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A case course dealing with current topics in business.

Requisites

Simple Requirements

Prerequisites: None

MUED5850 - Workshop in Music Ed

General

College/School
Fine Arts

Course Title
Workshop in Music Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUED

Course Number
5850

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Course Description
Laboratory approach providing opportunities for experienced music education personnel to study in-depth music educational problems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

MUED6600 - Foundation-Music Ed

General

College/School
Fine Arts

Course Title
Foundation-Music Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUED

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of the historical foundations, aesthetic philosophies, practices, and reforms in music education.

Requisites

Simple Requirements

Prerequisites: None

MUED6920 - Topics

General

College/School
Fine Arts

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUED

Course Number
6920

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
6

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
6

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
6

Course Description
Laboratory approach providing opportunities for experienced music educators to study specialty areas.

Requisites

Simple Requirements

Prerequisites: None

MUS5075 - Afro-Caribbean Ensemble

General

College/School
Fine Arts

Course Title
Afro-Caribbean Ensemble

Academic Level (Course Level)
Undergraduate

Course Subject Code
MUS

Course Number
5075

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
1

Contact Hours

Contact Hours Min :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
1

Lecture Hours

Lecture Hours Min:
2

Course Description
Students will explore and learn about the Afro-Caribbean culture through a hands-on study of traditional Afro-Caribbean instruments, imported from Trinidad and Tobago, and other authentic resources. This hands-on pedagogical approach will enhance the students' educational interest, understanding, and appreciation for the Afro-Caribbean diaspora, while increasing their involvement with the campus and community. As part of the students' assessment, members of this ensemble will be expected to participate in public concerts, educational workshops, and assembly presentations. These service opportunities will provide students with an enriched educational experience and promote personal growth as they become community ambassadors for cultural diversity.

Requisites

MUS5110 - Hist & Lit Of Jazz

General

College/School
Fine Arts

Course Title
Hist & Lit Of Jazz

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5110

Credit Hours

Credit Hours Min :
2

Contact Hours

Contact Hours Min :
2

Billing Hours

Billing Hours Min :
2

Lecture Hours

Lecture Hours Min:
2

Course Description
Jazz traced from its multi-ethnic origin to its present day form and its influences on American culture. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

Requisites

Simple Requirements

Prerequisites: None

MUS5120 - Contemporary Music

General

College/School
Fine Arts

Course Title
Contemporary Music

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5120

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The culture of musical pluralism since World War II, including art music, jazz, rock, and folk. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

Requisites

Simple Requirements

Prerequisite: MUS3010 Music History & Lit I or MUS3020 Music History & Lit II, MUS2110 Harmony III-MUS2120 Aural Techniques III with a grade of C or better.

MUS5150 - Computer App In Music

General

College/School
Fine Arts

Course Title
Computer App In Music

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5150

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
1

Course Description
Prerequisite: MUS 2130. An introduction to computer applications in music performance, composition, teaching, and related fields. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

MUS5250 - Recording Techniques

General

College/School
Fine Arts

Course Title
Recording Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5250

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
2

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
2

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
1

Course Description
Prerequisite: MUS 2130. An introduction to sound recording, including analog and digital formats. Emphasis on applications appropriate to performing musicians. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

MUS5400 - Composition

General

College/School
Fine Arts

Course Title
Composition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5400

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

MUS5500 - Conducting

General

College/School
Fine Arts

Course Title
Conducting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5500

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
The completion of four semesters in the Lower Division is required for enrollment in the Upper Division. In addition, each applicant must be approved by the jury hearing his/her performance examination at the end of the fourth semester, and also by his/her private instructor before being allowed to register for study at the 3000-level. This course can be repeated for multiple credit.

All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

MUS5510 - Computer App In Music

General

College/School
Fine Arts

Course Title
Computer App In Music

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5510

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
2

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
2

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
1

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

MUS5710 - Superv Teaching Exp I

General

College/School
Fine Arts

Course Title
Superv Teaching Exp I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5710

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Activities designed to offer supervised, practical experience in private studio teaching: planning and presenting lessons, and directing individual study. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

Requisites

Simple Requirements

Prerequisites: None

MUS5720 - Superv Teaching Exp II

General

College/School
Fine Arts

Course Title
Superv Teaching Exp II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
5720

Credit Hours

Credit Hours Min :
2

Contact Hours

Contact Hours Min :
2

Billing Hours

Billing Hours Min :
2

Lecture Hours

Lecture Hours Min:
2

Course Description
Continuation of MUS 4710 (5710). Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. All music majors must achieve a grade of “C” in each music course. If a lower grade is earned, the student must repeat the course.

Requisites

Simple Requirements

Prerequisites: None

MUS6000 - Ensemble Performance

General

College/School
Fine Arts

Course Title
Ensemble Performance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6000

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Participation in music ensemble with the area of specialization. May be repeated for credit.

Requisites

MUS6010 - Research Techq in Music

General

College/School
Fine Arts

Course Title
Research Techq in Music

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An overview of bibliographic sources in music research. Scholarly writing and presentation in area of emphasis.

Requisites

Simple Requirements

Prerequisite: None

MUS6100 - Proseminar-Style/Analysis

General

College/School
Fine Arts

Course Title
Proseminar-Style/Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
In-depth analysis of all parameters of selected musical examples; compositional procedures as a means of developing an intelligent rationale for interpretation.

Requisites

Simple Requirements

Prerequisite: None

MUS6110 - Score Study & Realization

General

College/School
Fine Arts

Course Title
Score Study & Realization

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Techniques, principles, and practices of musical score preparation and analysis including solfeggio and appropriate keyboard skills.

Requisites

Simple Requirements

Prerequisite: None

MUS6120 - Seminar in Music Ed

General

College/School
Fine Arts

Course Title
Seminar in Music Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of current methods and materials in Music Education (K-12) with an emphasis on research findings and applications.

Requisites

Simple Requirements

Prerequisite: None

MUS6200 - Seminar in Music History

General

College/School
Fine Arts

Course Title
Seminar in Music History

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focus on major genre, styles, or selected composers for an in-depth study of a particular topic.

Requisites

Simple Requirements

Prerequisite: None

MUS6220 - Surv-Lit/Homogen Ensemble

General

College/School
Fine Arts

Course Title
Surv-Lit/Homogen Ensemble

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A survey of the history and development of literature for homogeneous ensembles from early origins to the present.

Requisites

Simple Requirements

Prerequisite: None

MUS6330 - Adv Choral/Inst Techniques

General

College/School
Fine Arts

Course Title
Adv Choral/Inst Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Techniques and methodologies for teaching performing ensembles, grades 6-12.

Requisites

Simple Requirements

Prerequisite: None

MUS6400 - Applied Study

General

College/School
Fine Arts

Course Title
Applied Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6400

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
2

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
2

Course Description
Private study in the specialized medium of performance. May be repeated for credit.

MUS6800 - Graduate Recital Perform

General

College/School
Fine Arts

Course Title
Graduate Recital Perform

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6800

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
1

Billing Hours

Billing Hours Min :
1

Course Description
Performance of representative literature for the appropriate area of specialization.

Requisites

Simple Requirements

Prerequisite: None

MUS6900 - Graduate Performance Doc

General

College/School
Fine Arts

Course Title
Graduate Performance Doc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
MUS

Course Number
6900

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
A scholarly paper reporting the results of research into problems such as style or analysis, which correlates with the Graduate Recital Performance (MUS 680).

Requisites

Simple Requirements

Prerequisite: None

NRSE5000 - Concep Sys for Adv Nurs Prac

General

College/School
Whitson-Hester School of Nurs

Course Title
Concep Sys for Adv Nurs Prac

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The philosophical dimensions of the processes of ways of knowing and conceptualization which are linked to research and practice are introduced. Analysis and evaluation of nursing and related concepts, theories, and models are correlated with theory development, research, and practice. (fall)

Requisites

Simple Requirements

Prerequisite(s): Admission to the graduate program. Enrollment is restricted to the College of Nursing students.

NRSE5001 - Nsg Res/Ev-based Prac-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Nsg Res/Ev-based Prac-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5001

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite(s): Admission to the graduate program or permission of instructor. Enrollment is restricted to the College of Nursing students. This course provides students with an understanding of the methodology of research in nursing, evaluation of research design and the critical appraisal of the results of research. Application to clinical problems is central to the course.

Requisites

NRSE5006 - Adv Role Development

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Role Development

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5006

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explore, analyze, and evaluate issues in nursing and other discipline relevant to clinical practice, administration, education, and research issues. Discussion will focus on issues generated by role conflict and ambiguities in practice. Topics promoting the development of negotiation, entrepreneurial, contract development, and financial management skills are addressed in relation to roles of advanced nursing.

Requisites

Simple Requirements

Prerequisites: None

NRSE5008 - AdvPath & ClinAcuteMgmt II

General

College/School
Whitson-Hester School of Nurs

Course Title
AdvPath & ClinAcuteMgmt II

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5008

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NRSE5009 - Advanced Health Assessment Throughout the Life Span

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv. Health Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5009

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced health assessment focuses on the assessment of the total health status of individual and family clients throughout the life span. Emphasis is placed on the decision-making processes to differentiate normal from abnormal health status. Content includes predictable pathological findings and the mechanisms underlying them.

Requisites

Simple Requirements

Prerequisite: None

Corequisite: NURS6102 Adv Health Assmt/Clinical or none if Nursing Education

Requirements
COREQUISITES
NRSE5010

NRSE5010 - Advanced Health Assessment Throughout the Life Span Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv. Health Assmnt Practicum

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This practicum provides the student with opportunities to conduct advanced health assessment focusing on the assessment of the total health status of individual and family clients throughout the life span. Emphasis is placed on the decision-making processes which differentiate normal from abnormal health status. The practicum includes extensive laboratory practice and clinical placements.

Requisites

Requirements
COREQUISITES
NRSE5009

NRSE5011 - Hlth Prom, Treat, Middle Adult

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Prom, Treat, Middle Adult

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5011

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

NRSE5012 - Hlth Prom Middle Prac

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Prom Middle Prac

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5012

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

NRSE5013 - Hlth Promotion Older Adults

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Promotion Older Adults

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5013

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

NRSE5014 - Hlth Pro Older Adult Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Pro Older Adult Practicum

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5014

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

NRSE5016 - Adv Pathophysiology

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pathophysiology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5016

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is a study of the reaction of the body as a whole to disease throughout the life span. The focus is on alterations in biological processes which affect the body¿s dynamic equilibrium and a conceptual approach that is designed to integrate knowledge from the basic and clinical sciences. Alterations at the cellular and organ level are presented. These alterations include metabolic, infectious, immunologic, degenerative, and neoplastic processes.

Requisites

Simple Requirements

Prerequisite(s): Admission to graduate study or permission of instructor. Enrollment is restricted to the College of Nursing students.

NRSE5018 - Adv Clinical Pharmacology

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Clinical Pharmacology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5018

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Provides an intense exploration of pharmacological agents used to treat common recurrent health problems of clients across the life-span. Indications, contraindications, and interactions of pharmacological agents commonly used in primary health care settings are presented. The professional role of the DNP in relation to prescriptive authority is examined.

Requisites

Simple Requirements

Prerequisites: None

NRSE5021 - Life Span Women's Health

General

College/School
Whitson-Hester School of Nurs

Course Title
Life Span Women's Health

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5021

Credit Hours

Credit Hours
Min :
2

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
2

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
2

Lecture Hours
Max:
3

Course Description
This course focuses on nursing care of women experiencing health and developmental transitions. Biopsychosocial interactions during the childbearing cycle, as well as other health concerns of women which affect the family system such as infertility and family planning, are examined. The role of the nurse at an advanced level of practice in various settings including under-served, rural, and urban populations is explored. Nursing strategies for illness prevention, health promotion, and clinical management of acute and chronic situational health crises are examined. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: NRSE5000 Concep Sys for Adv Nurs Prac, NRSE5009 Adv. Health Assessment, and NRSE5010 Adv. Health Assmnt Practicum

Corequisites: NRSE5022 Life Assess Cl Mgmt Wom Hlth.

Requirements
COREQUISITES
NRSE5022

NRSE5022 - Life Assess Cl Mgmt Wom Hlth

General

College/School
Whitson-Hester School of Nurs

Course Title
Life Assess Cl Mgmt Wom Hlth

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5022

Credit Hours

Credit Hours Min :
2

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Course Description
The focus of this practicum is delivery of advanced nursing care to women. Various clinical settings with under-served, rural, and urban populations will be employed for clinical practice. The role of an advanced nurse generalist in case management is undertaken by the student, in collaboration with nursing faculty and clinical preceptors. The student will provide care, coordinate services, and collaborate with others as appropriate.

Requisites

Simple Requirements

Prerequisite(s): NRSE5010 Adv. Health Assmnt Practicum. Enrollment is restricted to the College of Nursing students.

NRSE5023 - Hlth Prom Mgmt Chld & Ad

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Prom Mgmt Chld & Ad

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5023

Credit Hours

Credit Hours Min :
2

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
2

Lecture Hours Max:
3

Course Description
Prerequisites: NRSE 5009 and 5010. Enrollment is restricted to the College of Nursing students. Corequisites: NRSE 5016 and 5018. This course focuses on the delivery of advanced practice nursing care to children and adolescents in rural, urban, and underserved populations. (spring)

Requisites

Simple Requirements

Prerequisites: NRSE5009 Adv. Health Assessment and NRSE5010 Adv. Health Assmnt Practicum. Enrollment is restricted to the College of Nursing students.

Corequisites: NRSE5016 Adv Pathophysiology and NRSE5018 Adv Clinical Pharmacology.

Requirements
COREQUISITES
NRSE5016

NRSE5024 - Hlth Pr/Di & Cl Mgt/C&A Pr

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Pr/Di & Cl Mgt/C&A Pr

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5024

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the delivery of advanced practice nursing care to children and adolescents. (spring)

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

Corequisite: NRSE5023 Hlth Prom Mgmt Chld & Ad.

Requirements
COREQUISITES
NRSE5023

NRSE5029 - Supervised Research-ETSU

General

College/School
Whitson-Hester School of Nurs

Course Title
Supervised Research-ETSU

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5029

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

NRSE5030 - Scholarly Writing

General

College/School
Whitson-Hester School of Nurs

Course Title
Scholarly Writing

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5030

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
This didactic course is designed to provide nursing graduate students with the knowledge and skills to master professional writing. Students focus on the components of academic writing that are required for the development of a dissertation or scholarly project proposal as well as future publications. The development of evidence tables, critical literature reviews and peer review will be covered.

Requisites

Simple Requirements

Prerequisite: None

NRSE5040 - Telehealth/Intrprof Hlthcr

General

College/School
Whitson-Hester School of Nurs

Course Title
Telehealth/Intrprof Hlthcr

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an introduction to telehealth designed for students enrolled in health-related programs or healthcare professional seeking additional knowledge in telehealth to enhance the provision of quality of care. The course provides an introduction to the use of telehealth to improve access to care and to improve patient health outcomes. A special emphasis is placed on interprofessional collaboration and the use of technology-based modalities to optimize healthcare delivery especially to patients in rural and underserved populations

Requisites

Simple Requirements

Prerequisites: None

NRSE5100 - Pr/Pop Hlth/Dt Anl/Adv Nurs Pr

General

College/School
Whitson-Hester School of Nurs

Course Title
Pr/Pop Hlth/Dt Anl/Adv Nurs Pr

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5100

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
This course will explore the ever-changing world of population health. Students will explore the role of age, gender, race, genetics, lifestyle, and environmental factors in regards to health and outcomes. Rates, prevalence and incidence of disease will be examined, and the role of technology in population health will be discussed. Students will use evidence-based research to identify needs of specific populations, and use best practice guidelines to propose ways to address these needs.

Requisites

Simple Requirements

Prerequisites: None

NRSE5301 - Ped Health Assess & Msmt-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Health Assess & Msmt-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5301

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
Builds on knowledge of advanced practice health assessment skills to assist the advanced practice pediatric nurse in varying health assessment techniques and diagnostic interpretation for the pediatric patient. Developmental, age-appropriate, and opportunistic approaches are emphasized.

Requisites

NRSE5302 - Ped. Pharmacotherapeutics-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped. Pharmacotherapeutics-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5302

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Builds on knowledge of advanced clinical pharmacology to assist the advanced practice pediatric nurse in application of pharmacotherapeutics specific to the pediatric patient. The impact of pediatric physiology on pharmacotherapeutics and the advanced practice pediatric nurse’s role in prescribing safety is emphasized.

Requisites

NRSE5303 - Psychopharmacology

General

College/School
Whitson-Hester School of Nurs

Course Title
Psychopharmacology

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5303

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to familiarize health profession students with the basic principles of psychopharmacology and to explore medications used to treat psychiatric disorders. The physiological basis of mental illness will be reviewed and the pharmacologic, pharmodynamic principles of medications used in mental health care examined.

Requisites

Simple Requirements

Prerequisite(s): Admission to the master's nursing program or permission of instructor. Enrollment is restricted to the College of Nursing students.

NRSE5304 - Hlth Prom of Growing Child-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Prom of Growing Child-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5304

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Lifespan growth, behavior, and development from birth to adolescence are examined. Health promotion within the context of lifespan development is emphasized. Psychosocial, family, and attachment theories in relation to child and family health are explored.

Requisites

NRSE5305 - Ped Pri Care I: Well Child-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Pri Care I: Well Child-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5305

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Health promotion within the context of illness, disease, or injury prevention is examined. The importance of frequent wellness assessments and early intervention in relation to developmental risk and disability is emphasized. The role of the advanced practice pediatric nurse in care of the well child is explored.

Requisites

NRSE5306 - Ped Pri Care II:Ep & Minor-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Pri Care II:Ep & Minor-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5306

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The role of the advanced practice pediatric nurse in care of the child with episodic and minor acute illness is explored. Pathophysiology, epidemiology, risk factors, screening and diagnostic tests, management, and patient education around episodic and minor acute illness is emphasized.

Requisites

NRSE5307 - Ped Pri Care III:Chron Ill-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Pri Care III:Chron Ill-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5307

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

The role of the advanced practice pediatric nurse in care of the child with chronic illness, disability, and complex conditions is explored. Pathophysiology, epidemiology, risk factors, screening and diagnostics, management and patient education around chronic illness, disability, and complex conditions is examined. The importance of continuity of care is emphasized.

Requisites

NRSE5308 - Cont Iss in Adol Hlth Care-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Cont Iss in Adol Hlth Care-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5308

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Current and contemporary issues in school-age and adolescent health care are addressed. The impact of environment, peer dynamic, psychosocial, and biophysical changes on these age groups is emphasized.

Requisites

NRSE5309 - Ped Behav & Mntl Hlth Iss-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Behav & Mntl Hlth Iss-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5309

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Common pediatric behavioral and mental health issues are examined. Integrative management approaches are identified and evaluated. Models and systems of pediatric behavioral and mental health care are explored.

Requisites

NRSE5310 - Abused or Neglected Child-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Abused or Neglected Child-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5310

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Using a case-based approach, the abused or neglected child is discussed. Risk factors for child abuse or child neglect are identified. The short-term and long-term consequences are explored. Legal issues and role of the advanced practice nurse are emphasized.

Requisites

NRSE5311 - APN Ped Pri Care Prac I-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
APN Ped Pri Care Prac I-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5311

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Precepted practicum in pediatric primary care. Advanced practice clinical experiences in pediatric health promotion and disease and injury prevention. Management of well-child visits and patient and family education is emphasized.

Requisites

NRSE5312 - APN Ped Pri Care Pract II-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
APN Ped Pri Care Pract II-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5312

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Precepted practicum in pediatric primary care. Advanced practice clinical experiences in differential diagnosis and management of episodic and minor acute illnesses are emphasized.

Requisites

NRSE5313 - APN Ped Pri Care Pract III-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
APN Ped Pri Care Pract III-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5313

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description

Precepted practicum in pediatric primary care. Integration of advanced practice pediatric primary care for healthy and ill children along with management of children with chronic illness, disability, and complex child health conditions.

Requisites

NRSE5314 - Pediatric Certification Prep

General

College/School
Whitson-Hester School of Nurs

Course Title
Pediatric Certification Prep

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5314

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integration of pediatric primary care knowledge development and evidence-based advanced pediatric primary care concepts with application and preceptorship experiences. Includes preparation for the PNCB certification exam.

Requisites

Simple Requirements

Prerequisites: Completion of NRSE5315 Hlth Promo: Growing Child, NRSE5305 Ped Pri Care I: Well Child-TTU, NRSE5306 Ped Pri Care II:Ep & Minor-TTU, NRSE5311 APN Ped Pri Care Prac I-TTU, NRSE5312 APN Ped Pri Care Pract II-TTU, NRSE5317 Adv Pediatric Nurs Pract III.

NRSE5315 - Hlth Promo: Growing Child

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Promo: Growing Child

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5315

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The role of the advanced practice pediatric nurse in health promotion of the growing child is explored. Lifespan, growth, behavior, and development from birth to adolescence is examined in the context of lifespan development and population-specific approach to pediatric health care visits in the primary care setting.

Requisites

Simple Requirements

Prerequisite: Admission to the graduate program.

NRSE5316 - Chrnc Illns, Disab, Cmplx Cond

General

College/School
Whitson-Hester School of Nurs

Course Title
Chrnc Illns, Disab, Cmplx Cond

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5316

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The role of the advanced practice pediatric nurse in care of the child with chronic illness, disability, and complete conditions is explored. Pathophysiology, epidemiology, risk factors, screening ad diagnostics, management and patient education around chronic illness, disability, and complex conditions is examined. The importance of continuity of care is emphasized.

Requisites

Simple Requirements

Prerequisites: Completion of NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE5016 Adv Pathophysiology, NRSE5018 Adv Clinical Pharmacology, NRSE5315 Hlth Promo: Growing Child, NRSE5305 Ped Pri Care I: Well Child-TTU, NRSE5311 APN Ped Pri Care Prac I-TTU; or Permission of Instructor.

Co-requisite: NRSE5317 Adv Pediatric Nurs Pract III.

Requirements
COREQUISITES
NRSE5317

NRSE5317 - Adv Pediatric Nurs Pract III

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pediatric Nurs Pract III

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5317

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Precepted practicum in pediatric primary care. Integration of advanced practice primary care pediatric concepts for healthy and ill children including management of children with chronic illness, disability, and complex child health conditions.

Requisites

Simple Requirements

Prerequisites: Completion of NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE5016 Adv Pathophysiology, NRSE5018 Adv Clinical Pharmacology, NRSE5315 Hlth Promo: Growing Child, NRSE5305 Ped Pri Care I: Well Child-TTU, NRSE5311 APN Ped Pri Care Prac I-TTU; or Permission of Instructor.

Co-requisite: NRSE5316 Chrnc Illns, Disab, Cmplx Cond.

Requirements
COREQUISITES
NRSE5316

NRSE5404 - Adv Psych Fam Nsg Care I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Psych Fam Nsg Care I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5404

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides a foundation for the use of diagnostic reasoning and advanced therapeutics in the specialty care of individuals and families experiencing or at risk of experiencing psychiatric illnesses. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Corequisites: NRSE5303 Psychopharmacology, NRSE5405 Adv Fam Psych Nsg Care Prac I.

Requirements
COREQUISITES
NRSE5303

NRSE5405 - Adv Fam Psych Nsg Care Prac I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psych Nsg Care Prac I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5405

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides a synthesis and application of specific knowledge and the development of advanced clinical judgment in the specialized care of adults and families experiencing a psychiatric disorder or at risk of experiencing a psychiatric disorder. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: NRSE5009 Adv. Health Assessment, NRSE 5010, NRSE5016 Adv Pathophysiology, NRSE 5018.

Corequisites: NRSE5303 Psychopharmacology, NRSE5404 Adv Psych Fam Nsg Care I.

Requirements
COREQUISITES
NRSE5303

NRSE5408 - Adv Family Psych Nsg Care II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Family Psych Nsg Care II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5408

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will build on foundational knowledge in the use of diagnostic reasoning and advanced therapeutics in the care of special populations, particularly children, adolescents, and geriatric patients, building on the previously acquired foundational knowledge of care of the adult patient. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: NRSE5303 Psychopharmacology, NRSE5404 Adv Psych Fam Nsg Care I, NRSE5405 Adv Fam Psych Nsg Care Prac I.

Corequisites: NRSE5409 Adv Fam Psych Nsg Care Prac II.

Requirements
COREQUISITES
NRSE5409

NRSE5409 - Adv Fam Psych Nsg Care Prac II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psych Nsg Care Prac II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5409

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides the clinical experiences to acquire, synthesize and apply specific knowledge in the specialized care of children, adolescents and geriatric patients experiencing a psychiatric disorder, or at risk for developing a psychiatric disorder. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: NRSE5303 Psychopharmacology, NRSE5404 Adv Psych Fam Nsg Care I, NRSE5405 Adv Fam Psych Nsg Care Prac I.

Corequisites: NRSE5408 Adv Family Psych Nsg Care II.

Requirements
COREQUISITES
NRSE5408

NRSE5410 - Intrpers Treatmnt Modalities

General

College/School
Whitson-Hester School of Nurs

Course Title
Intrpers Treatmnt Modalities

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides students with a conceptual theory-base for implementing advanced practice psychiatric nursing psychotherapy interventions. (fall)

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

Corequisite: NRSE5411 Intrpers Trtmnt Modailt Prac

Requirements
COREQUISITES
NRSE5411

NRSE5411 - Intrpers Trtmnt Modailt Prac

General

College/School
Whitson-Hester School of Nurs

Course Title
Intrpers Trtmnt Modailt Prac

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5411

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides students clinical experiences in implementing supervised selected therapy interventions for specific patients. The intervention is based on the assessment, diagnosis, and treatment of the patient¿s mental health condition, congruent with the analysis of the best evidence. (fall)

Requisites

Simple Requirements

Prerequisite(s): NRSE5404 Adv Psych Fam Nsg Care I. Enrollment is restricted to the College of Nursing students.

Corequisite(s): NRSE5410 Intrpers Treatmnt Modalities.

Requirements
COREQUISITES
NRSE5410

NRSE5500 - Exec Leadership Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Exec Leadership Practicum

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5500

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Course Description
This executive leadership practicum provides an in-depth, individualized practicum experience with approved nurse administrator preceptors. Each credit is equal to 70 clock hours. Repeatable up to 7 hours.

Requisites

Simple Requirements

Prerequisites: Admission into DNP program.

NRSE5501 - Leadership in Nurs Admin

General

College/School
Whitson-Hester School of Nurs

Course Title
Leadership in Nurs Admin

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5501

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Leadership theories and concepts are explored, analyzed, and evaluation. the course focuses on personal leadership philosophy and how it impacts organizational members.

Requisites

Simple Requirements

Prerequisite: Enrollment is restricted to the College of Nursing students.

NRSE5502 - Exec Ldrship Practicum I

General

College/School
Whitson-Hester School of Nurs

Course Title
Exec Ldrship Practicum I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5502

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduces the nurse executive role through collaboration with a nurse administrator preceptor.

Requisites

Simple Requirements

Prerequisites: NRSE5501 Leadership in Nurs Admin and NRSE5510 Organ Theory & Nurs Admin or permission of instructor.

NRSE5503 - Exec Ldrship Practicum II

General

College/School
Whitson-Hester School of Nurs

Course Title
Exec Ldrship Practicum II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5503

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Course Description
Continues to explore the role of the nurse executive while strengthening nursing leadership skills.

Requisites

Simple Requirements

Prerequisites: NRSE5502 Exec Ldrship Practicum I, NRSE5510 Organ Theory & Nurs Admin, or permission of instructor.

NRSE5504 - Exec Leadership Pract III-ETSU

General

College/School
Whitson-Hester School of Nurs

Course Title
Exec Leadership Pract III-ETSU

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5504

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Provides opportunity to integrate leadership skills and best practice guidelines to improve organizational effectiveness and patient outcomes.

Requisites

Simple Requirements

Prerequisites: NRSE5503 Exec Ldrship Practicum II and NRSE5510 Organ Theory & Nurs Admin or permission of instructor.

NRSE5510 - Organ Theory & Nurs Admin

General

College/School
Whitson-Hester School of Nurs

Course Title
Organ Theory & Nurs Admin

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Analyzes organizational theory and the role of the nurse administrator. Examines alternative forms of organizational structure, organizational culture, design parameters, and forces for and against change.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE5520 - Fiscal Mgmt in Nurs Admin-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Fiscal Mgmt in Nurs Admin-TTU

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5520

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examines management of fiscal resources in nursing service settings.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE5530 - Hlth Care Organizations & Law

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Care Organizations & Law

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This interdisciplinary course is part of the Health Care Management Certificate Program that is totally online. The focus of the course is to provide an overview of the role of law in the health care system for health care administration.

Requisites

Simple Requirements

Prerequisite(s): Permission of instructor. Enrollment is restricted to the College of Nursing students.

NRSE5550 - Human Resources Mgmt

General

College/School
Whitson-Hester School of Nurs

Course Title
Human Resources Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to offer a current, introduction to a wide array of Human Resource management (HRM) principles and activities. During this semester students will strive to relate state-of-the art HR management practices and principles and apply them in practical applications.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE5570 - Nurs Admin Prac II-ETSU

General

College/School
Whitson-Hester School of Nurs

Course Title
Nurs Admin Prac II-ETSU

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NRSE5580 - Proj Mgmt Nrse Leaders

General

College/School
Whitson-Hester School of Nurs

Course Title
Proj Mgmt Nrse Leaders

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on all major aspects and components of project management

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE5590 - Strategic Plan for Health Care

General

College/School
Whitson-Hester School of Nurs

Course Title
Strategic Plan for Health Care

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5590

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course applies the concepts of strategic planning within the context of the health care industry. Issues associated with competing in a changing health care environment are explored with a focus on the development of solutions to problems associated with this change. The strategic management of health care delivery will be addressed from a variety of perspectives, ranging from those of the insurance industry, to public health facilities, to large health care networks, to small practices of health care providers.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE5608 - Adv Patho/Clin Reas II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Patho/Clin Reas II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5608

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides in-depth study of complex disease processes using an evidence-based approach to diagnose and manage acute and chronic clinical problems in critically ill adults.

Requisites

Simple Requirements

Prerequisite: NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE 5010, and NRSE5018 Adv Clinical Pharmacology

Corequisite: NRSE5609 Acute Disease Mgmt Pr II.

Requirements
COREQUISITES
NURS5609

NRSE5612 - Acute Care Pharm

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Care Pharm

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5612

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course covers current pharmacotherapies used in designing care for adults with complex acute, chronic and critical conditions.

Requisites

Simple Requirements

Prerequisites: NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE5016 Adv Pathophysiology, and NRSE5018 Adv Clinical Pharmacology

NRSE5613 - Acute Disease Mgmt Pr I

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Disease Mgmt Pr I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5613

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course provides students with the opportunity to apply advanced knowledge of complex disease processes and management issues to a hospitalized population of adults.

Requisites

Simple Requirements

Corequisite: NRSE5604 Adv Patho/Clin Reas I.

Requirements
COREQUISITES
NRSE5604

NRSE5614 - Acute Disease Mgmt Pr II

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Disease Mgmt Pr II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5614

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course provides students with the opportunity to apply advanced knowledge of selected complex disease processes and management issues to a critical care population of adults.

Requisites

Simple Requirements

Corequisite: NRSE5608 Adv Patho/Clin Reas II.

Requirements
COREQUISITES
NRSE5608

NRSE5615 - Internship/Acute Care NP Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Internship/Acute Care NP Pract

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5615

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Course Description
This internship experience focuses on the synthesis of previously gained knowledge and skills to provide advanced nursing care for individuals, families and communities. Emphasis is placed on health promotion, disease prevention and clinical management of clients with common acute and chronic illness in acute care settings.

Requisites

Simple Requirements

Prerequisite: Permission of Instructor.

NRSE5616 - Internship/Acute Care NP Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Internship/Acute Care NP Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
5616

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This internship experience focuses on the synthesis of previously gained knowledge and skills to provide advanced nursing care for individuals, families and communities. Emphasis is placed on health promotion, disease prevention and clinical management of clients with common acute and chronic illness in acute care settings.

Requisites

Simple Requirements

Prerequisite: Permission of Instructor.

NRSE5617 - Diag Interp/Thera Mod Pr

General

College/School
Whitson-Hester School of Nurs

Course Title
Diag Interp/Thera Mod Pr

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
5617

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course applies advanced assessment skills, diagnostic testing and current therapies to manage care of adults with complex acute, chronic and critical conditions in acute care using evidence and incorporating acute care pharmacology.

Requisites

Simple Requirements

Prerequisite: NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE 5015, and NRSE5018 Adv Clinical Pharmacology.

Corequisite: NRSE5610 Diag Interpret/Thera Mod.

Requirements
COREQUISITES
NRSE5610

NRSE5701 - Pharmacology Wom. Health-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Pharmacology Wom. Health-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5701

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Application of advanced pharmacological concepts to address the health needs of the female client across the life span.

Requisites

NRSE5702 - Wom Hlth Adv Prac I:GYN-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Wom Hlth Adv Prac I:GYN-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5702

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the gynecological client across the life span.

Requisites

NRSE5703 - Wm Hlth Adv Pr I:GYN Prac-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Wm Hlth Adv Pr I:GYN Prac-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5703

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of advanced knowledge of gynecological care providing assessment, diagnosis, and treatment management.

Requisites

NRSE5704 - Adv Nursing Care Older Wm-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Nursing Care Older Wm-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5704

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Knowledge development and integration of preventive health guidelines and current gynecological and primary care concepts in the management of the health of the older female client.

Requisites

NRSE5705 - Wom Hlth Adv Prac II:OB-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Wom Hlth Adv Prac II:OB-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5705

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the obstetrical client.

Requisites

NRSE5706 - Wom Hlth Adv Prac II Pract-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Wom Hlth Adv Prac II Pract-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5706

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Application of advanced knowledge of obstetrical care providing assessment, diagnosis, and treatment management.

Requisites

NRSE5707 - Issues in Reprod. Health-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Issues in Reprod. Health-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5707

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Prerequisites: NRSE 5016, 5009, 5010, 5018. Integration of gynecological, obstetrical, and advanced assessment concepts to address the health needs of women experiencing infertility.

Requisites

NRSE5708 - Complex Issues in Wom Hlth-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Complex Issues in Wom Hlth-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5708

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Application of advanced knowledge of selected complex disease processes and management issues in women’s health.

Requisites

NRSE5709 - Wom Hth Adv Prac III Pract-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Wom Hth Adv Prac III Pract-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5709

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Application of advanced assessment skills incorporating diagnostics and evidence based therapies to provide women’s health care across the life span in both the healthy and seriously ill women (chronic and acute).

Requisites

NRSE5710 - Primary Care Women's Hlth-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Primary Care Women's Hlth-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integration of pathophysiology, assessment, and diagnosis in the management of common primary health care needs of women.

Requisites

NRSE5711 - Women's Hlth for Adv Prac IV

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth for Adv Prac IV

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5711

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This cumulating clinical course provides students with the opportunity to apply advanced knowledge of complex female disease processes and management issues to patients across the lifespan in the clinical setting.

Requisites

Simple Requirements

Prerequisite: With permission from Concentration Coordinator.

NRSE5712 - Wmns Hlth/Adv Prac II:OB

General

College/School
Whitson-Hester School of Nurs

Course Title
Wmns Hlth/Adv Prac II:OB

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5712

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the obstetrical client.

Requisites

Simple Requirements

Prerequisites: NRSE5016 Adv Pathophysiology, NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, and NRSE5018 Adv Clinical Pharmacology

Co-requisites: NRSE5715 Wmns Hlth/Adv Prac II:OB.

Requirements
COREQUISITES
NRSE5715

NRSE5713 - Complex Issues in Wmns Health

General

College/School
Whitson-Hester School of Nurs

Course Title
Complex Issues in Wmns Health

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5713

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of advanced knowledge of selected complex disease processes and management issues in women's health.

Requisites

Simple Requirements

Prerequisites: NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, NRSE5016 Adv Pathophysiology, and NRSE5018 Adv Clinical Pharmacology.

Corequisites: NRSE5716 Women's Hlth for Adv Prac III.

Requirements
COREQUISITES
NRSE5716

NRSE5714 - Wmns Hlth for Adv Pract I

General

College/School
Whitson-Hester School of Nurs

Course Title
Wmns Hlth for Adv Pract I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5714

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Integration of knowledge development and advanced care concepts utilizing evidence-based concepts in the diagnosis, management and treatment of the gynecological client cross the life span in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NRSE5016 Adv Pathophysiology, NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, and NRSE5018 Adv Clinical Pharmacology.

Co-requisites: NRSE5702 Wom Hlth Adv Prac I:GYN-TTU.

Requirements
COREQUISITES
NRSE5702

NRSE5715 - Wmns Hlth/Adv Prac II:OB

General

College/School
Whitson-Hester School of Nurs

Course Title
Wmns Hlth/Adv Prac II:OB

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5715

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Integration of knowledge development and advanced care concepts utilizing evidence-based concepts in the diagnosis, management, and treatment of the obstetric client across the life span in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NRSE5016 Adv Pathophysiology, NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, and NRSE5018 Adv Clinical Pharmacology

Co-requisite: NRSE5712 Wmns Hlth/Adv Prac II:OB.

Requirements
COREQUISITES
NURS5712

NRSE5716 - Women's Hlth for Adv Prac III

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth for Adv Prac III

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5716

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Course Description
Integration and application of advanced care concepts utilizing evidence-based concepts in the diagnosis, management, and treatment of the female client across the lifespan in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NRSE5016 Adv Pathophysiology, NRSE5009 Adv. Health Assessment, NRSE5010 Adv. Health Assmnt Practicum, and NRSE5018 Adv Clinical Pharmacology.

Co-requisite: NRSE5713 Complex Issues in Wmns Health.

Requirements
COREQUISITES
NRSE5713

NRSE5900 - Independent Study

General

College/School
Whitson-Hester School of Nurs

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5900

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description
Independent study in consultation with a member of the graduate nursing faculty. Directed study and/or research in an area for which the student has special interest and adequate preparation. When Offered: Fall, Spring; variable

Requisites

Simple Requirements

Prerequisites: Admission to the School of Graduate Studies.

NRSE5957 - Special Topics in NSG

General

College/School
Whitson-Hester School of Nurs

Course Title
Special Topics in NSG

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
5957

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NRSE6002 - Health Policy Leadership

General

College/School
Whitson-Hester School of Nurs

Course Title
Health Policy Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6002

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
This course is designed to help students develop skill in analyzing health policy development, evaluating current health policy, and providing leadership to influence health policy at various governmental levels. A special focus on rural health policy is included.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE6004 - Advanced Quality Mgmt-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Advanced Quality Mgmt-TTU

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6004

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course prepares nurse leaders to direct complex health care systems within a customer-focused, ethical framework using advanced quality management skills.

Requisites

Simple Requirements

Prerequisites: None

NRSE6014 - Measure/Clinical Outcome

General

College/School
Whitson-Hester School of Nurs

Course Title
Measure/Clinical Outcome

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
6014

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to help students develop skills in systematic evaluation, and development of clinical outcome measures in order to improve health.

Requisites

Simple Requirements

Prerequisites: Permission of instructor. Enrollment is restricted to the College of Nursing students.

NRSE6019 - Collab Approach to Prac-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Collab Approach to Prac-TTU

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6019

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to help the student understand the collaborative process, to develop skills in analyzing the politics of collaboration, and to evaluate related theoretical frameworks in order to provide leadership in the development of collaborative relationships. (summer)

Requisites

Simple Requirements

Prerequisite(s): Admission to the doctoral program. Enrollment is restricted to the College of Nursing students.

NRSE6021 - Integ Appl Adv Prac Skil

General

College/School
Whitson-Hester School of Nurs

Course Title
Integ Appl Adv Prac Skil

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6021

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course focuses on development of advanced practice skills and their integration in the diagnosis and management of acute and chronic clinical problems in acute care settings.

Requisites

Simple Requirements

Prerequisites: None

NRSE6022 - Strategic Pln for Health Care

General

College/School
Whitson-Hester School of Nurs

Course Title
Strategic Pln for Health Care

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6022

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Applies the concepts of strategic planning within the context of the health care industry. Issues associated with competing in a changing health care environment are explored with a focus on the development of solutions to problems associated with this change. The strategic management of health care delivery will be addressed from a variety of perspectives, ranging from those of the insurance industry, to public health facilities, to large health care networks, to small practices of health care providers.

Requisites

Simple Requirements

Prerequisites: None

NRSE6023 - Paltve/End-of-Life Care&APN

General

College/School
Whitson-Hester School of Nurs

Course Title
Paltve/End-of-Life Care&APN

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6023

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Applies the concepts of culturally congruent palliative and end-of-life care within the context of the advance practice nurse. Issues associated with families and persons wo are severely ill or dying in the health care environment are explored with a focus on the APN (APN) and assessment, management and evaluation of ethical palliative and EOLC solutions to problems associated with being severely ill and dying.

Requisites

Simple Requirements

Prerequisites: Program Coordinator Approval.

NRSE6024 - Adv Concept in Pathophysiology

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Concept in Pathophysiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6024

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course explores knowledge emerging from recent research in pathophysiology, examines current research trends, and presents designs and processes that focus on the clinical application of research findings.

Requisites

Simple Requirements

Prerequisites: None

NRSE6050 - Quality/Translation

General

College/School
Whitson-Hester School of Nurs

Course Title
Quality/Translation

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to provide DNP students with theoretical and applied knowledge in the translation of nursing science into practice with the goal of improving the outcomes, quality, efficiency and cost effectiveness of care.

Requisites

Simple Requirements

Prerequisites: None

NRSE6210 - Dev DNP Prac in Wom Health-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Dev DNP Prac in Wom Health-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Role transition and practice development in both the independent and collaborative practice setting.

Requisites

NRSE6211 - Adv. Nur. Care Vuln. Wom.-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv. Nur. Care Vuln. Wom.-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6211

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Identification of vulnerability and incorporation of best practices in women’s health to meet the special needs of vulnerable women.

Requisites

NRSE6212 - Adv. Interv. for Wom. Hlth-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv. Interv. for Wom. Hlth-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6212

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Development of advanced practice skills and their integration in the diagnosis & management of acute and chronic clinical problems in women’s health.

Requisites

NRSE6213 - Integ. App. Women's Health-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Integ. App. Women's Health-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6213

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integration of complementary and holistic care in women’s health across the lifespan.

Requisites

NRSE6310 - Ped. Health Care Deliv.Sys

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped. Health Care Deliv.Sys

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the role of the advanced practice pediatric nurse in the larger context of pediatric health care by examining models of service delivered regionally, nationally, and internationally.

Requisites

NRSE6311 - Adv Fam Sys Assess & Eval-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Sys Assess & Eval-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6311

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on child health in the context of the family system. Building on knowledge of family system theory, the role of the advanced practice pediatric nurse in family health promotion is explored. Advanced family assessment skills are utilized to identify family system issues as barriers to optimal child health.

Requisites

NRSE6312 - Epidem. At-Risk Famlies-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Epidem. At-Risk Famlies-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6312

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The principles of epidemiology for urban, rural, and underserved families and subsequent impact on child health are explored. Analysis of child health disparity in the context of the at-risk population is examined. The role of the advanced practice pediatric nurse is explored in relation to addressing barriers to equitable quality child healthcare.

Requisites

NRSE6313 - Ldsp & Collab App Ped Hlth-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Ldsp & Collab App Ped Hlth-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6313

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examines leadership theory and development of the advanced practice pediatric nurse in relation to planning, management, and delivery of child healthcare to improve pediatric health outcomes. Inter-professional collaborative approaches in management of children with complex healthcare delivery needs are emphasized.

Requisites

NRSE6314 - Pediatric Palliative Care-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Pediatric Palliative Care-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6314

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examines end-of-life care for pediatric patients from multiple perspectives. Concepts of pain management, bioethical considerations, and models of care are explored.

Requisites

NRSE6315 - Genet Infl. Child-Fam Hlth-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Genet Infl. Child-Fam Hlth-TTU

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6315

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of genetics and genomics will be applied to the context of child and family health. Genetic screening tools are examined for reliability and validity.

Requisites

NRSE6316 - Prov School-Bsd Hlth Care

General

College/School
Whitson-Hester School of Nurs

Course Title
Prov School-Bsd Hlth Care

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6316

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Variables influencing provision of school-based health care by the advanced practice nurse will be explored. Assessment and evaluation of a school system for feasibility of school health services provisions is completed.

Requisites

NRSE6317 - Int Apps-Ldrshp/Ped Hlthcr Del

General

College/School
Whitson-Hester School of Nurs

Course Title
Int Apps-Ldrshp/Ped Hlthcr Del

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6317

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description

Prerequisites: Completion of NRSE 5315, 5305, 5306, 5316, 5311, 5312, 5317 and successful DNP Proposal Defense. This course focuses on the role of the advanced practice pediatric nurse in the larger context of pediatric healthcare delivery models of service. Complexity science and other relevant leadership theories in context of DNP leadership development are explored. Leadership and its impact on interprofessional collaboration to influence pediatric health outcomes and complex healthcare delivery is emphasized.

Requisites

NRSE6400 - Imprv MH Outcoms PrimCare-TTU

General

College/School
Whitson-Hester School of Nurs

Course Title
Imprv MH Outcoms PrimCare-TTU

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides advanced practice nurses with the necessary knowledge base to provide care for adults and their families experiencing mental health problems encountered in the primary care setting.

Requisites

Simple Requirements

Prerequisite: Admission to the Graduate Nursing Program. enrollment is restricted to the College of Nursing students.

NRSE6412 - Clin Prev Mntl Hlt Svcs

General

College/School
Whitson-Hester School of Nurs

Course Title
Clin Prev Mntl Hlt Svcs

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6412

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Focuses on theoretical foundations in mental health promotion, mental illness prevention and maintenance of function across the health-illness continuum with the individual, family, and community.

Requisites

Simple Requirements

Prerequisites: None

NRSE6413 - Adv Communication Skills

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Communication Skills

Academic Level (Course Level)
Graduate

Course Subject Code
NRSE

Course Number
6413

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the theory, techniques, and application of communication skills for advanced communication skills of groups to improve mental health outcomes

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE6414 - Neurobio Psych Disor

General

College/School
Whitson-Hester School of Nurs

Course Title
Neurobio Psych Disor

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6414

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide essential neurobiology of psychiatric disorders for the Psychiatric Mental Health Nurse Practitioner. The structural, biochemical, and molecular mechanisms of the normal nervous system in relationship to neuropsychiatric dysfunction and neurodegeneration will be emphasized.

Requisites

Simple Requirements

Prerequisites: Enrollment is restricted to the College of Nursing students.

NRSE6415 - Mental Hlth Care Deliv Systems

General

College/School
Whitson-Hester School of Nurs

Course Title
Mental Hlth Care Deliv Systems

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6415

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the role of the advanced practice psychiatric nurse in the larger context of mental health care by examining models of service delivery regionally, nationally and internationally. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

NRSE6513 - Case Management

General

College/School
Whitson-Hester School of Nurs

Course Title
Case Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6513

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the role of the advanced nurse practitioner considering emerging trends and theoretical models in health care delivery. The role of advanced practice nurses as case managers in the care of chronically ill populations is the central focus

Requisites

Simple Requirements

Prerequisite: Graduate Status or Permission of Instructor. Enrollment is restricted to the College of Nursing students.

NRSE6610 - Patient Illness Experience

General

College/School
Whitson-Hester School of Nurs

Course Title
Patient Illness Experience

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Examines therapeutic interactions within the context of patients' illness experiences from a patient-centered care perspective. Particular emphasis is placed on theories and empirical work that distinguishes illness from disease and the role of narrative in enhancing healing relationships and environments.

Requisites

Simple Requirements

Prerequisites: None

NRSE6612 - Prin Nrs Prctnr Prac

General

College/School
Whitson-Hester School of Nurs

Course Title
Prin Nrs Prctnr Prac

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6612

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The establishment, maintenance and evaluation of a nurse practitioner practice will be discussed. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: None

NRSE6613 - Adv Nrs Rural/Undrsv Popls

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Nrs Rural/Undrsv Popls

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NRSE

Course Number
6613

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the relationship between pathophysiologic processes and complex disease states across the life span, with special attention to conditions and areas of health disparities common to rural and underserved populations.Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: Completion of all 5000 level clinical courses.

NRSE6614 - Adv Intrv DNP Prac

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Intrv DNP Prac

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6614

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on advanced procedural, technical and clinical nursing skills with intervention techniques for advanced practice.Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: None

NRSE6710 - Adv Family Psych Nrs I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Family Psych Nrs I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NRSE6711 - Health Care Informatics & Tech

General

College/School
Whitson-Hester School of Nurs

Course Title
Health Care Informatics & Tech

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6711

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course covers applications of informatics and technology in individual health care, for health care providers, and within health care systems.

Requisites

Simple Requirements

Prerequisites: Permission of the instructor.

NRSE6712 - Strategic Fiscal Mgmt

General

College/School
Whitson-Hester School of Nurs

Course Title
Strategic Fiscal Mgmt

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6712

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines strategic fiscal management in nursing service settings with an emphasis on balancing fiscal accountability with quality. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: None

NRSE6713 - Systems Mgmt

General

College/School
Whitson-Hester School of Nurs

Course Title
Systems Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NRSE

Course Number
6713

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the role of the nurse administrator/executive in systematic management within complex organizations. Management is viewed from a systems approach.

Requisites

Simple Requirements

Prerequisite: Admission to DNP Program. Enrollment is restricted to the College of Nursing students.

NRSE6714 - Executive Leadership/Nursing

General

College/School
Whitson-Hester School of Nurs

Course Title
Executive Leadership/Nursing

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6714

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on current and emerging theories impacting the role of the nurse administrator/executive at an aggregate/systems/organizational level. Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: None

NRSE6715 - Contemp Prob Opp Ex Ld-ETSU

General

College/School
Whitson-Hester School of Nurs

Course Title
Contemp Prob Opp Ex Ld-ETSU

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6715

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines contemporary problems and opportunities in executive leadership for the DNP at the aggregate/systems/organization level. Notes: Enrollment is restricted to the college of Nursing students.

Requisites

Simple Requirements

Prerequisite: Admission to DNP Program.

NRSE6800 - DNP Residency Internship

General

College/School
Whitson-Hester School of Nurs

Course Title
DNP Residency Internship

Academic Level (Course Level)
Doctoral

Course Subject Code
NRSE

Course Number
6800

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Course Description
Prerequisite: Admission to DNP program or permission of instructor. Enrollment is restricted to the College of Nursing students. This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. Includes at least 500 hours of supervised practice-related experiences.

Requisites

NRSE6801 - DNP Project Identification-ETS

General

College/School
Whitson-Hester School of Nurs

Course Title
DNP Project Identification-ETS

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6801

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Course Description
Prerequisite: Admission into the DNP program or permission of instructor. This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. This course serves to complete, in part, the 500 hours of supervised practice-related experiences required to complete program of study and prepare for subsequent residency completion courses.

Requisites

Simple Requirements

Prerequisite: Admission into the DNP program or permission of instructor.

NRSE6802 - DNP Project Development

General

College/School
Whitson-Hester School of Nurs

Course Title
DNP Project Development

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6802

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Course Description
This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. This course serves to complete, in part, the 500 hours of supervised practice-related experiences required to complete program of study and prepare for subsequent residency completion courses.

Requisites

Simple Requirements

Prerequisite: Admission into the DNP program and completion of Residency 1.

NRSE6803 - DNP Project ImplementationETSU

General

College/School
Whitson-Hester School of Nurs

Course Title
DNP Project ImplementationETSU

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6803

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Course Description
Prerequisites: Admission into the DNP program and completion of Residency I and II. This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. This course serves to complete, in part, the 500 hours of supervised practice-related experiences required to complete program of study and prepare for subsequent residency completion courses.

NRSE6804 - DNP Project Evalua & Dissemn

General

College/School
Whitson-Hester School of Nurs

Course Title
DNP Project Evalua & Dissemn

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6804

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Course Description
This course is a practicum immersion where students integrate and synthesize the essentials and specialty requirements necessary to demonstrate competency in an area of specialized nursing practice. This course serves to complete, in part, the 500 hours of supervised practice-related experiences required to complete program of study and prepare for subsequent residency completion courses.

Requisites

Simple Requirements

Prerequisites: Admission into the DNP program and completion of Residency I and II and III.

NRSE6860 - Capstone

General

College/School
Whitson-Hester School of Nurs

Course Title
Capstone

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an opportunity for the student to apply advanced theoretical, policy, and specialty knowledge and skills to a clinical or systems-level problem. It is expected that students will propose a capstone project that will demonstrate advanced levels of systems thinking in designing, delivering and evaluating evidenced-based strategies to influence care provision or system changes and improve outcomes for individuals, groups, or populations. Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: All DNP 5000 level coursework or permission of instructor.

Corequisites: NRSE6800 DNP Residency Internship.

NRSE6950 - Internship Adv Nursg Practice

General

College/School
Whitson-Hester School of Nurs

Course Title
Internship Adv Nursg Practice

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NRSE

Course Number
6950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This internship experience focuses on the synthesis of previously gained knowledge and skills to provide advanced nursing care for individuals, families and communities. Emphasis is placed on health promotion, disease prevention and clinical management of clients with common acute and chronic illness in psychiatric care settings. Notes: Enrollment is restricted to the College of Nursing students.

Requisites

Simple Requirements

Prerequisites: NRSE5303 Psychopharmacology, NRSE5404 Adv Psych Fam Nsg Care I, NRSE5405 Adv Fam Psych Nsg Care Prac I, NRSE5408 Adv Family Psych Nsg Care II, NRSE5409 Adv Fam Psych Nsg Care Prac II, NRSE5410 Intrpers Treatmnt Modalities, NRSE5411 Intrpers Trtmnt Modailt Prac.

NURS5009 - Health Assessment Lifespan

General

College/School
Whitson-Hester School of Nurs

Course Title
Health Assessment Lifespan

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
5009

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced health assessment focuses on the assessment of the total health status of individual and family clients throughout the life span. Emphasis is placed on the decision-making processes to differentiate normal from abnormal health status. Content includes predictable pathological findings and the mechanisms underlying them.

Requisites

Simple Requirements

Prerequisites: None

Requirements
COREQUISITES
NURS6102

NURS5305 - Ped Prim Care I-Well Child

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Prim Care I-Well Child

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5305

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Health promotion within the context of illness, disease, or injury prevention is examined. The importance of frequent wellness assessments and early intervention in relation to developmental risk and disability is emphasized. The role of the advanced practice pediatric nurse in care of the well child is explored.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Co-requisite: NURS5311 Ped Prim Care I-Well Child Pra.

Requirements
COREQUISITES
NURS5311

NURS5306 - Ped Prim Care II-Ep/Mnr Ac Iln

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Prim Care II-Ep/Mnr Ac Iln

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5306

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The role of the advanced practice pediatric nurse in care of the child with episodic and minor acute illness is explored. Pathophysiology, epidemiology, risk factors, screening and diagnostic tests, management, and patient education around episodic and minor acute illness is emphasized.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5305 Ped Prim Care I-Well Child/NURS5311 Ped Prim Care I-Well Child Pra.

Corequisite: NURS5312 Adv Ped Nrs Pract II.

Requirements
COREQUISITES
NURS5312

NURS5311 - Ped Prim Care I-Well Child Pra

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Prim Care I-Well Child Pra

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5311

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Health promotion within the context of illness, disease, or injury prevention is examined. The importance of frequent wellness assessments and early intervention in relation to developmental risk and disability is emphasized. The role of the advanced practice pediatric nurse in care of the well child is explored.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Co-requisite: NURS5305 Ped Prim Care I-Well Child.

Requirements
COREQUISITES
NURS5305

NURS5312 - Adv Ped Nrs Pract II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Ped Nrs Pract II

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5312

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Precepted practicum in pediatric primary care. Advanced practice clinical experiences in differential diagnosis and management of episodic and minor acute illnesses are emphasized.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5305 Ped Prim Care I-Well Child/NURS5311 Ped Prim Care I-Well Child Pra.

Co-requisite: NURS5306 Ped Prim Care II-Ep/Mnr Ac Iln.

Requirements
COREQUISITES
NURS5306

NURS5314 - Adv Pediatric Precept & Cert

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pediatric Precept & Cert

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5314

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integration of pediatric primary care knowledge development and evidence-based advanced pediatric primary care concepts with application and preceptorship experiences. Includes preparation for the PNCB certification exam.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5305 Ped Prim Care I-Well Child/NURS5311 Ped Prim Care I-Well Child Pra, NURS5306 Ped Prim Care II-Ep/Mnr Ac Iln/NURS5312 Adv Ped Nrs Pract II, NURS5316 Ped Primary Care III/NURS5317 Adv Ped Nurs Pract III.

NURS5315 - Hlth Promotio of Growing Child

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Promotio of Growing Child

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5315

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The role of the advanced practice pediatric nurse in health promotion of the growing child is explored. Lifespan, growth, behavior, and development from birth to adolescence is examined in the context of lifespan development and population-specific approach to pediatric health care visits in the primary care setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS5316 - Ped Primary Care III

General

College/School
Whitson-Hester School of Nurs

Course Title
Ped Primary Care III

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5316

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The role of the advanced practice pediatric nurse in care of the child with chronic illness, disability, and complex conditions is explored. Pathophysiology, epidemiology, risk factors, screening and diagnostics, management and patient education around chronic illness, disability, and complex conditions is examined. The importance of continuity of care is emphasized.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5305 Ped Prim Care I-Well Child/NURS5311 Ped Prim Care I-Well Child Pra, NURS5306 Ped Prim Care II-Ep/Mnr Ac Iln/NURS5312 Adv Ped Nrs Pract II.

Co-requisite: NURS5317 Adv Ped Nurs Pract III.

Requirements
COREQUISITES
NURS5317

NURS5317 - Adv Ped Nurs Pract III

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Ped Nurs Pract III

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5317

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Precepted practicum in pediatric primary care. Integration of advanced practice primary care pediatric concepts for healthy and ill children including management of children with chronic illness, disability, and complex child health conditions.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5305 Ped Prim Care I-Well Child/NURS5312 Adv Ped Nrs Pract II.

Co-requisite: NURS5316 Ped Primary Care III.

Requirements
COREQUISITES
NURS5316

NURS5350 - Hlth Care of Comm (RN-BSN)

General

College/School
Whitson-Hester School of Nurs

Course Title
Hlth Care of Comm (RN-BSN)

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
5350

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
This course focuses on the nursing process and dynamics of family, community, national and international groups. This course encompasses knowledge of growth and development, culture, family and pathophysiology from the natural and social sciences and liberal arts. The epidemiological process is explored and applied to various diseases in a variety of populations. Emphasis is placed on the three levels of prevention as it holistically applies to community groups and problems.

Requisites

Simple Requirements

Requirements: MSN Bridge status, RN Licensure.

NURS5604 - Adv Patho/Clin Reas I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Patho/Clin Reas I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5604

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on developing knowledge and using evidence-based practice concepts on the integration of pathophysiological concepts and advanced assessment findings needed to delineate diagnoses in management of complex acute and chronic clinical problems in hospitalized adults and older adults.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Co-requisite: NURS5613 Acute Disease Mgmt Pr I.

Requirements
COREQUISITES
NURS5613

NURS5608 - Adv Patho/Clin Reas II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Patho/Clin Reas II

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5608

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides in-depth study of complex disease processes to diagnosis and manage acute and chronic clinical problems in critically ill adults using current evidence.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I.

Corequisite: NURS5614 Acute Disease Mgmt Pr II.

Requirements
COREQUISITES
NURS5614

NURS5610 - Diag Interpret/Thera Mod

General

College/School
Whitson-Hester School of Nurs

Course Title
Diag Interpret/Thera Mod

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course builds on advanced assessment skills to incorporate diagnostic testing and current therapies to provide complex care for adults and older adults with complex acute, chronic and critical conditions.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I, NURS5608 Adv Patho/Clin Reas II/NURS5614 Acute Disease Mgmt Pr II.

Co-requisite: NURS5617 Diag Interpret/Thera Mod Pr.

Requirements
COREQUISITES
NURS5617

NURS5612 - Acute Cr/Phamacotherapeutics

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Cr/Phamacotherapeutics

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
5612

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course covers current pharmacotherapeutics used in designing care of adults and older adults with complex acute, chronic, and critical conditions.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS5613 - Acute Disease Mgmt Pr I

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Disease Mgmt Pr I

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5613

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This course provides students with the opportunity to apply advanced knowledge of complex disease processes and management issues to a hospitalized population of adults and older adults.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Co-requisite: NURS5604 Adv Patho/Clin Reas I.

Requirements
COREQUISITES
NURS5604

NURS5614 - Acute Disease Mgmt Pr II

General

College/School
Whitson-Hester School of Nurs

Course Title
Acute Disease Mgmt Pr II

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5614

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This course provides students with the opportunity to apply advanced knowledge of selected complex disease processes and management issues to a critical care population of adults and older adults.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I.

Requirements
COREQUISITES
NURS5608

NURS5616 - Int in Acute Care NP Practice

General

College/School
Whitson-Hester School of Nurs

Course Title
Int in Acute Care NP Practice

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5616

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This internship experience focuses on the synthesis of previously gained knowledge and skills to provide advanced nursing care for individuals, families, and communities. Emphasis is placed on health promotion, disease prevention and clinical management of clients with common acute and chronic illness in acute care settings.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I, NURS5608 Adv Patho/Clin Reas II/NURS5614 Acute Disease Mgmt Pr II, NURS5610 Diag Interpret/Thera Mod/NURS5617 Diag Interpret/Thera Mod Pr.

Co-Requisite: NURS6021 App - Adv Skills in Acute Care.

Requirements
COREQUISITES
NURS6021

NURS5617 - Diag Interpret/Thera Mod Pr

General

College/School
Whitson-Hester School of Nurs

Course Title
Diag Interpret/Thera Mod Pr

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5617

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This course applies advanced assessment skills to incorporate diagnostic testing and current therapies to provide complex care for adults and older adults with complex acute, chronic and critical conditions.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6103 Adv Pathophysiology, NURS6013, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I, NURS5608 Adv Patho/Clin Reas II/NURS5614 Acute Disease Mgmt Pr II.

Co-requisite: NURS5610 Diag Interpret/Thera Mod.

Requirements
COREQUISITES
NURS5610

NURS5701 - Pharm for Women's Health

General

College/School
Whitson-Hester School of Nurs

Course Title
Pharm for Women's Health

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5701

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the gynecological client across the life span.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS5702 - Women's Health Adv Pract I:GYN

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Health Adv Pract I:GYN

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5702

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the gynecological client across the life span.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5714

NURS5710 - Primary Care for Women's Hlth

General

College/School
Whitson-Hester School of Nurs

Course Title
Primary Care for Women's Hlth

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Integration of pathophysiology, assessment, and diagnosis in the management of common primary health care needs of women.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS5711 - Women's Hlth/Adv Pra IV: Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth/Adv Pra IV: Pract

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5711

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This cumulating clinical course provides students with the opportunity to apply advanced knowledge of complex female disease processes and management issues to patients across the lifespan in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS5712 - Women's Health Adv Pract II:OB

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Health Adv Pract II:OB

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5712

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Knowledge development and integration of advanced care concepts utilizing evidence-based concepts in the diagnosis and management of the obstetrical client.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5715

NURS5713 - Complex Issues in Women's Hlth

General

College/School
Whitson-Hester School of Nurs

Course Title
Complex Issues in Women's Hlth

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5713

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of advanced knowledge of selected complex disease processes and management issues in women's health.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5716

NURS5714 - WmnsHlth/Adv Pract I:GYNPrctm

General

College/School
Whitson-Hester School of Nurs

Course Title
WmnsHlth/Adv Pract I:GYNPrctm

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5714

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Integration of knowledge development and advanced care concepts utilizing evidence-based concepts in the diagnosis, management and treatment of the gynecological client across the life span in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS 6101, 6102, 6013, 6104. NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6013, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5702

NURS5715 - WmnsHlth/Adv Pract II:OBPrctm

General

College/School
Whitson-Hester School of Nurs

Course Title
WmnsHlth/Adv Pract II:OBPrctm

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5715

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Integration of knowledge development and advanced care concepts utilizing evidence-based concepts in the diagnosis and management and treatment of the obstetrical client across the life span in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5712

NURS5716 - Women's Hlth/Adv Pract III:Pra

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth/Adv Pract III:Pra

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
5716

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Integration and application of advanced care concepts utilizing evidence-based concepts in the diagnosis, management and treatment of the female client across the lifespan in the clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Requirements
COREQUISITES
NURS5713

NURS5900 - Independent Study

General

College/School
Whitson-Hester School of Nurs

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
5900

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Independent study in consultation with a member of the graduate nursing faculty. Directed study and/or research in an area for which the student has special interest and adequate preparation. When Offered: Fall, Spring; variable

Requisites

Simple Requirements

Prerequisites: Admission to the School of Graduate Studies.

NURS6000 - Theoretical Foundations

General

College/School
Whitson-Hester School of Nurs

Course Title
Theoretical Foundations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6000

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
This course provides the student with the theoretical foundations for advanced nursing. The focus of the course is on the critical components of contemporary nursing knowledge; exploration of the nature of theory development in nursing; examination of relevance of concepts from basic and applied sciences; analysis and evaluation of nursing and related theories; and relevance of theory in terms of impact on professional nursing practice, and individuals, families, groups as clients in health care systems.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program or permission of Coordinator.

NURS6001 - Health Care Policy

General

College/School
Whitson-Hester School of Nurs

Course Title
Health Care Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6001

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The primary focus of this course is the analysis of healthcare systems. Public and private healthcare delivery systems are examined. Students explore future challenges and processes to improve systems.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program or permission of Coordinator.

NURS6002 - Advanced Nursing Research

General

College/School
Whitson-Hester School of Nurs

Course Title
Advanced Nursing Research

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6002

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course involves the systematic examination and application of the research process. The concept of evidenced-based practice and its application to nursing is critically examined.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program or permission of Coordinator.

NURS6003 - Adv Role Development

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Role Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6003

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides students with an in-depth understanding of the legal, historical, political, social, and ethical aspects of advanced nursing. Traditional and emerging roles for advanced nursing are examined.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

NURS6021 - App - Adv Skills in Acute Care

General

College/School
Whitson-Hester School of Nurs

Course Title
App - Adv Skills in Acute Care

Academic Level (Course Level)
Doctoral, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6021

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Transition into the NP role and the development of advanced practice skills and their integration in the diagnosis and management of acute and chronic clinical problems in acute care settings in adults and older adults.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS5604 Adv Patho/Clin Reas I/NURS5613 Acute Disease Mgmt Pr I, NURS5608 Adv Patho/Clin Reas II/NURS5614 Acute Disease Mgmt Pr II, NURS5610 Diag Interpret/Thera Mod/NURS5617 Diag Interpret/Thera Mod Pr.

Co-Requisites: NURS5616 Int in Acute Care NP Practice

Requirements
COREQUISITES
NURS5616

NURS6023 - Palliative Care & the APN

General

College/School
Whitson-Hester School of Nurs

Course Title
Palliative Care & the APN

Academic Level (Course Level)
Doctoral, Graduate

Course Subject Code
NURS

Course Number
6023

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Applies the concepts of culturally congruent palliative and end-of-life care within the context of the advance practice nurse. Issues associated with families and persons who are severely ill or dying in the health care environment are explored with a focus on the APN (APN) and assessment, management, and evaluation of ethical palliative and EOLC solutions to problems associated with being severely ill and dying.

Requisites

Simple Requirements

Prerequisites: None

NURS6101 - Adv Health Assessment

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Health Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6101

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course prepares the advanced practice nurse to conduct focused and comprehensive health assessments of clients across the lifespan. The process of diagnostic reasoning is emphasized as the primary means of collecting and analyzing data obtained from the client history, physical examination, and diagnostic procedures.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

Requirements
COREQUISITES
NURS6102

NURS6102 - Adv Health Assmt/Clinical

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Health Assmt/Clinical

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6102

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
3

Course Description
This clinical course emphasizes the application of advanced assessment techniques to perform focused and comprehensive health assessments of clients across the lifespan. Clinical analysis and synthesis of physical assessment data and diagnostic reasoning skills are developed.

Requisites

Simple Requirements

Prerequisite: Admission to the RODP-MSN program or permission of coordinator.

Corequisite: NURS6101 Adv Health Assessment

Requirements
COREQUISITES
NURS6101

NURS6103 - Adv Pathophysiology

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pathophysiology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6103

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An in-depth scientific knowledge base relevant to selected pathophysiological states confronted by advanced practice nurses is explored. This course provides a basis for the foundation of clinical decisions related to selected diagnostic tests and the initiation of therapeutic regimens. Pathophysiology across the lifespan is correlated to clinical diagnoses and management.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

NURS6104 - Adv Pharmacology

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pharmacology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6104

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides advanced pharmacology and therapeutics used in the treatment of selected health conditions commonly encountered by the advanced practice nurse. Emphasis focuses on the decision making process utilized to prescribe and monitor pharmacotherapeutics appropriate to the client situation.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

NURS6201 - Theories in Nursing Edu

General

College/School
TN eCampus Degree

Course Title
Theories in Nursing Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6201

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: NURS 6000. This course explores major research-based theories of adult learning and knowledge development in nursing. These theories will be examined for their utility across a variety of settings/and or levels of education.

Requisites

NURS6202 - Teaching Strategy & Eval Mthd

General

College/School
Regents Online Degree

Course Title
Teaching Strategy & Eval Mthd

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6202

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Admission to the RODP-MSN program. This course provides the learner with knowledge necessary for competent classroom and clinical teaching. Methods of teaching students at the university, community college, and healthcare settings in classroom, seminar and electronic formats are explored. Evaluation methods used in the classroom and in clinical instruction are included.

Requisites

NURS6203 - Curriculum Design

General

College/School
TN eCampus Degree

Course Title
Curriculum Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6203

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: NURS 6201. This course introduces the student to traditional and contemporary considerations for curriculum planning and design as applied to nursing education. Emphasis is placed on philosophy, theory, objectives, curriculum designs, and total program evaluation.

Requisites

NURS6204 - Curriculum Design/Ed Theory

General

College/School
Whitson-Hester School of Nurs

Course Title
Curriculum Design/Ed Theory

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6204

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NURS6205 - Eval Methods in Nursing Edu

General

College/School
Whitson-Hester School of Nurs

Course Title
Eval Methods in Nursing Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6205

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

NURS6207 - Clinical Focus-Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Clinical Focus-Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6207

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
8

Billing Hours

Billing Hours
Min :
2

Course Description
This practicum experience focuses on the synthesis of previously gained knowledge and skills in the provision of advanced nursing care to individuals, families and communities. Emphasis is placed on management of clients within a clinical focus area.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology, 3 credit hour course in selected clinical focus area.

NURS6209 - Nursing Education Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Nursing Education Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6209

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
4

Course Description
This practicum experience is designed to integrate theory in a reality context of the teaching role. Opportunities are provided to participate in all phases of the teaching role, including clinical instruction in an area of specialization, and to experiment with different teaching methods.

Requisites

Simple Requirements

Prerequisite: All MSN coursework.

Requirements
COREQUISITES
NURS6990

NURS6210 - Innovative Teaching Strategies

General

College/School
Whitson-Hester School of Nurs

Course Title
Innovative Teaching Strategies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6210

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course is designed to introduce students to foundational education concepts, principles, and theories while exploring creative teaching and student learning approaches. Students will examine concepts of learning styles, student engagement, evolving technology, and adult learning.

Requisites

Simple Requirements

Prerequisites: NURS6000 Theoretical Foundations, NURS6001 Health Care Policy, NURS6003 Adv Role Development, NURS6101 Adv Health Assessment, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS6211 - Trends in Healthcare Mgmt

General

College/School
Whitson-Hester School of Nurs

Course Title
Trends in Healthcare Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6211

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This course is designed to equip the student with an overview of advanced nursing knowledge in current trends, best practice guidelines, and available resources related to the care of those with chronic and acute diseases. Consideration will be given to major chronic and acute health problems and the factors that influence care management across the life span.

Requisites

Simple Requirements

Prerequisites: None.

NURS6212 - Preparation for Certification

General

College/School
Whitson-Hester School of Nurs

Course Title
Preparation for Certification

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6212

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
This course will provide a survey of various concepts surrounding the certification exam for nurse educators.

Requisites

Simple Requirements

Prerequisites: All MSN coursework, excluding NURS6990 Scholarly Synthesis, NURS6207 Clinical Focus-Practicum, NURS6209 Nursing Education Practicum.

NURS6301 - Nursing Administration I

General

College/School
Whitson-Hester School of Nurs

Course Title
Nursing Administration I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6301

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Admission to the MSN program. Comprehensive analysis of concepts required for effective performance of the nurse executive's role in organizations. Management as a function of the total organizational system is evaluated. Organizational designs and interpersonal relationships in the healthcare organization are critiqued.

Requisites

Simple Requirements

Prerequisite Courses

Type
Prerequisite

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
  AND NURS6001 - Health Care Policy
  AND NURS6002 - Advanced Nursing Research
  AND NURS6003 - Adv Role Development

NURS6302 - Nursing Administration II

General

College/School
Whitson-Hester School of Nurs

Course Title
Nursing Administration II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6302

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: NURS 6301. The primary focus of this course is a synthesis of concepts used for effective performance of the nurse executive's role in organizations. The use of human and financial resources in organizational development is explored.

Requisites

Simple Requirements

Prerequisites: NURS 6000, NURS 6001, NURS 6002, NURS 6003, and NURS 6301.

NURS6303 - Health Care Finance

General

College/School
Whitson-Hester School of Nurs

Course Title
Health Care Finance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6303

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course will enable you to learn the basics of current finance theory and tools to practice in mnaging healthcare on a day-to-day basis.

Requisites

Simple Requirements

Prerequisite: NURS6000 Theoretical Foundations.

NURS6304 - Human Res Mgmt

General

College/School
Whitson-Hester School of Nurs

Course Title
Human Res Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6304

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: NURS 6301. Personnel and human resource issues including labor management in nursing and health care settings.

Requisites

Simple Requirements

Prerequisite Courses

Type
Prerequisite

Complete ALL of the following Courses:
- NURS6000 - Theoretical Foundations
  AND NURS6001 - Health Care Policy
  AND NURS6002 - Advanced Nursing Research
  AND NURS6003 - Adv Role Development
  AND NURS6301 - Nursing Administration I

NURS6305 - Quality Mgmt in Nursing & Hlth

General

College/School
Whitson-Hester School of Nurs

Course Title
Quality Mgmt in Nursing & Hlth

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6305

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides a multidisciplinary background in the science of health care quality management. The history and evolution of the quality movement, theories and thought leaders, current quality of care issues, research and innovations, intervention strategies, and instruments will be covered; as well as an analysis of quality management system models in health care. The student will learn to develop and plan for execution of quality improvement plans and will use a quality indicator assessment program, such as Agency for Healthcare Research and Quality (AHRQ) or National Database for Nursing Quality Indicators (NDNQI), as the framework to develop a paper that identifies quality indicators, their measurements and the nursing interventions to improve the quality measurement. Value based purchasing will be defined and interventions to optimize value based purchasing will be discussed.

Requisites

Simple Requirements

Prerequisite: NURS6301 Nursing Administration I, NURS6302 Nursing Administration II.

NURS6307 - Nursing Management Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Nursing Management Practicum

Academic Level (Course Level)
Graduate

Course Subject Code
NURS

Course Number
6307

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
This practicum experience integrates theory into a reality context of the nurse manager’s role. Students will participate in various functions and phases of the nurse manager role. Students, faculty, and preceptors will evaluate the student’s strengths and weaknesses related to the skills and competencies of nursing management. Course includes 120 clock hours of clinical time.

Requisites

Simple Requirements

Prerequisite: NURS6000 Theoretical Foundations, NURS6001 Health Care Policy, NURS6002 Advanced Nursing Research, NURS6003 Adv Role Development, NURS6301 Nursing Administration I, NURS6302 Nursing Administration II, NURS6304 Human Res Mgmt.

Pre-or co-requisite: NURS6305 Quality Mgmt in Nursing & Hlth.

NURS6309 - Nursing Admin Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Nursing Admin Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6309

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Course Description
This practicum experience is designed to integrate theory in a reality context of the administrator's role. Opportunities are provided to participate in all phases of the executive role in different administrative settings.

Requisites

Simple Requirements

Prerequisite: NURS6301 Nursing Administration I, NURS6302 Nursing Administration II, NURS6303 Health Care Finance, NURS6304 Human Res Mgmt, NURS6305 Quality Mgmt in Nursing & Hlth.

Pre-or co-requisite: NURS6990 Scholarly Synthesis.

NURS6400 - Intro-Clinical Healthcare Envr

General

College/School
TN eCampus Degree

Course Title
Intro-Clinical Healthcare Envr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6400

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Requisites

NURS6401 - Intro-Healthcare Informatics

General

College/School
Whitson-Hester School of Nurs

Course Title
Intro-Healthcare Informatics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6401

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Digital Literacy. This course is the foundation of informatics study. It provides the theoretical framework for information management within various healthcare settings. Topics will include an overview of healthcare information systems and applications and national healthcare information management initiatives.

Requisites

Simple Requirements

Prerequisite: Digital Literacy.

NURS6402 - Healthcare Info Sys & Tech

General

College/School
Whitson-Hester School of Nurs

Course Title
Healthcare Info Sys & Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6402

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses the healthcare professional on the foundations of information system hardware and software interaction inclusive of the structure and function of networks and the Internet. Strategic planning tactics for technology assessment and integration will prepare students to lead technology integration projects in practice. Additional topics will include computer hardware found in healthcare information systems, interface standards, as well as human-computer interaction, such as ergonomics and workflow analysis.

Requisites

Simple Requirements

Corequisite: Corequisite by instructor/advisor permission only. NURS6401 Intro-Healthcare Informatics.

NURS6403 - Proj Mgt Dec-Anlys HC Info Sys

General

College/School
Whitson-Hester School of Nurs

Course Title
Proj Mgt Dec-Anlys HC Info Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6403

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will explore the project management concepts and skills related to the analysis and design of information systems. Topics will include project management, systems life cycle and solution design, vendor and system selection, and evaluating solutions against strategic objectives.

Requisites

Simple Requirements

Prerequisite: NURS6401 Intro-Healthcare Informatics.

NURS6404 - Proj Mgt Imp & Eval HC Inf Sys

General

College/School
Whitson-Hester School of Nurs

Course Title
Proj Mgt Imp & Eval HC Inf Sys

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6404

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will explore the project management concepts and skills related to the implementation and evaluation of information systems. Topics will include project management, systems testing, implementation strategies, and solution valuation.

Requisites

Simple Requirements

Prerequisite: NURS6403 Proj Mgt Dec-Anlys HC Info Sys.

NURS6405 - Hlthcre Data Anyls/Evid Bsd Pr

General

College/School
Regents Online Degree

Course Title
Hlthcre Data Anyls/Evid Bsd Pr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6405

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: NURS 6401. This course presents the concepts related to complex data analysis within the health care environment. Principles of data collection, organization and statistical analysis and interpretation will be covered. Students will also have the opportunity to review complex applications for data mining and reporting within the health care environment.

Requisites

NURS6406 - Healthcare Data Analysis

General

College/School
Whitson-Hester School of Nurs

Course Title
Healthcare Data Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6406

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course presents the concepts related to complex data analysis within the healthcare environment and will focus on healthcare practice outcomes for quality improvement. Principles of data collection, organization, statistical analysis and interpretation will be presented. Students will use data analysis as a tool for problem identification and data mining.

Requisites

Simple Requirements

Prerequisite: MS NURS6002 Advanced Nursing Research and NURS6402 Healthcare Info Sys & Tech.

MPS Prerequisite: STAT 5140 and NURS6402 Healthcare Info Sys & Tech.

NURS6407 - Informatics Applications I

General

College/School
Whitson-Hester School of Nurs

Course Title
Informatics Applications I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6407

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This applications course integrates informatics concepts with tools used in healthcare informatics practice. Topics include database design, concept mapping, workflow analysis, and solution modeling.

Requisites

Simple Requirements

Prerequisite: NURS6402 Healthcare Info Sys & Tech.

NURS6409 - Informatics Applications II

General

College/School
Whitson-Hester School of Nurs

Course Title
Informatics Applications II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6409

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
This applications course integrates further informatics concepts with tools used in healthcare informatics practice. Topics include web applications, website and media design, and data presentation.

Requisites

Simple Requirements

Prerequisite: NURS6404 Proj Mgt Imp & Eval HC Inf Sys.

NURS6410 - Informatics Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Informatics Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6410

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Course Description
This practicum provides students with the opportunity to gain informatics-related experiences in the healthcare setting. Students will complete a minimum of 200 hours in the clinical setting functioning under the supervision of an informatics professional. Specific learning objectives will be developed based upon the clinical placement. Students will be eligible to write the ANCC certification exam following this practicum course.

Requisites

Simple Requirements

Prerequisites: None

NURS6501 - Adult Health Nursing I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adult Health Nursing I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6501

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the theoretical and conceptual basis for nursing management of the acutely ill client from social, cultural, psychological, physical, spiritual and economic perspectives.

Requisites

Simple Requirements

Prerequisite: NURS6000 Theoretical Foundations.

NURS6503 - Advanced Adult Health Nurs II

General

College/School
Whitson-Hester School of Nurs

Course Title
Advanced Adult Health Nurs II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6503

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the theoretical and conceptual basis for nursing management of clients experiencing chronic illness from social, cultural, psychological, physical, spiritual, and economic perspectives.

Requisites

Simple Requirements

Prerequisites: NURS6000 Theoretical Foundations, NURS6103 Adv Pathophysiology, NURS6501 Adult Health Nursing I.

NURS6505 - Advanced Adult Health Nursing

General

College/School
Whitson-Hester School of Nurs

Course Title
Advanced Adult Health Nursing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6505

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the theoretical and conceptual basis of the advanced practice nurse role in the delivery of care to adult populations experiencing acute and chronic illness from a social, cultural, psychological, physical, spiritual, and economic perspective.

Requisites

Simple Requirements

Prerequisite: Admission to MSN program.

Pre- or co-requisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, and NURS6104 Adv Pharmacology.

NURS6511 - Psy Nursing Care I

General

College/School
Whitson-Hester School of Nurs

Course Title
Psy Nursing Care I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6511

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide a foundation in the specialty care of individuals and families experiencing a psychiatric disorder.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology.

NURS6513 - Psychiatric Nursing Care II

General

College/School
Whitson-Hester School of Nurs

Course Title
Psychiatric Nursing Care II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6513

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides students with a conceptual theory-base for implementing advanced practice psychiatric nursing psychotherapy interventions.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology.

NURS6515 - Adv Psyc/Mental Health Nursing

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Psyc/Mental Health Nursing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6515

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on advanced principles and concepts related to mental health nursing. The course emphasizes the roles and functions of the advanced practice nurse in meeting the needs of individuals/families/groups/communities who are experiencing alterations in psychosocial functioning. It includes management strategies from the domains of nursing, medicine and pharmacological therapeutics. Evidence-based practices, research, culture diversity, ethics and legal issues are integrated into this course.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

Pre- or co-requisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, and NURS6104 Adv Pharmacology.

NURS6522 - Critical Care I

General

College/School
Whitson-Hester School of Nurs

Course Title
Critical Care I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6522

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on advanced concepts of critical care related to multi-organ/ system function and dysfunction. Nursing care relating to physiology, assessment, pathophysiology, system failure, and clinical management of the cardiovascular system, pulmonary system, renal system, and endocrine system are addressed. Core concepts of complex pathophysiology, current treatment modalities, and advanced nursing roles are integrated in discussions of providing care to critically ill patients.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology.

NURS6523 - Critical Care II

General

College/School
Whitson-Hester School of Nurs

Course Title
Critical Care II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6523

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on advanced concepts of critical care related to multi-organ/ system function and dysfunction. Nursing care relating to physiology, assessment, pathophysiology, system failure, and clinical management of the defense systems (infection, sepsis, organ/bone marrow transplant), shock, trauma, neurological system, hepatic system and gastrointestinal systems are addressed. Integrative core concepts with more complex pathophysiology and advanced treatment modalities of advanced nursing care are integrated to provide care to critically ill patients.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology.

NURS6525 - Adv Critical Care Nursing

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Critical Care Nursing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6525

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on advanced concepts related to multi-organ/system function and disfunction. Physiology, assessment, pathophysiology, system failure, and clinical management of major body systems are addressed.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

Pre- or co-requisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

NURS6541 - Women's Hlth/Perinatal Nurs I

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth/Perinatal Nurs I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6541

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on evidence-based care of the women experiencing common health alterations and developmental transitions. Nursing strategies will include health promotion, prevention of disease, maintenance, and restoration.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology.

NURS6543 - Women's Hlth/Perinatal Nurs II

General

College/School
Whitson-Hester School of Nurs

Course Title
Women's Hlth/Perinatal Nurs II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6543

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on evidence-based management and care of the pre-gestational, antepartum, intrapartum, and the puerpieum woman. Focus will include selected alterations of pregnancy. In addition, management and care of the adaptive transitional stages of the newborn and parenting education are explored.

Requisites

Simple Requirements

Prerequisite: NURS6103 Adv Pathophysiology, NURS6541 Women's Hlth/ Perinatal Nurs I.

NURS6545 - Adv Women's Hlth/Perinatal Nrs

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Women's Hlth/Perinatal Nrs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6545

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on the care of women’s health issues and the pre, peri, and post natal care of both mother and newborn. Nursing strategies for illness prevention, health promotion, and clinical management of both acute and chronic conditions are addressed.

Requisites

Simple Requirements

Prerequisite: Admission to the MSN program.

Pre- or co-requisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, and NURS6104 Adv Pharmacology.

NURS6610 - Adult Health Primary Care I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adult Health Primary Care I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on care of young and middle adults through primary and secondary prevention, diagnosis and treatment of common clinical problems using evidence in primary care settings including developmental, physiological, pathological and psychosocial changes relative to health maintenance in both acute and chronic illnesses.

Requisites

Simple Requirements

Prerequisites: NURS6104 Adv Pharmacology; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS6102 Adv Health Assmt/Clinical; NURS6103 Adv Pathophysiology.

Corequisite: NURS6611 Adult Hlth Primary Care I Pra.

Requirements
COREQUISITES
NURS6611

NURS6611 - Adult Hlth Primary Care I Pra

General

College/School
Whitson-Hester School of Nurs

Course Title
Adult Hlth Primary Care I Pra

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6611

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description
This course focuses on care of young and middle-aged adults in underserved, rural and urban populations, and is designed to provide opportunities to apply theoretical and/or scientific knowledge to health promotion, diagnosis and management. Students will apply their knowledge of advanced assessment, pathophysiology, and evidence-based practice in a clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6104 Adv Pharmacology; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS6102 Adv Health Assmt/Clinical;NURS6103 Adv Pathophysiology.

Corequisite: NURS6610 Adult Health Primary Care I.

Requirements
COREQUISITES
NURS6610

NURS6612 - Adult Health Primary Care II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adult Health Primary Care II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6612

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on care of older adults through primary and secondary prevention, diagnosis and treatment of common clinical problems using evidence in primary care settings including developmental, physiological, pathological and psychosocial changes relative to health maintenance in both acute and chronic illnesses. This course places emphasis on the geriatric population.

Requisites

Simple Requirements

Prerequisites: NURS 6104; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS 6102; NURS 6103, NURS 6610/NURS6611 Adult Hlth Primary Care I Pra.

Corequisite: NURS6613 Adult Hlth Primary Care II.

Requirements
COREQUISITES
NURS6613

NURS6613 - Adult Hlth Primary Care II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adult Hlth Primary Care II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6613

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description
Prerequisites: NURS 6104; NURS 5009/6101; NURS 6102; NURS 6103; NURS 6610/6611. Corequisites: NURS 6612.This course focuses on care of older adults, including the underserved, rural, and urban settings emphasizing clinical prevention and the treatment of acute/chronic illness. It is designed to provide opportunities to apply theoretical and/or scientific knowledge to health promotion, diagnosis and management. Students will apply their knowledge of advanced assessment, pathophysiology, and evidenced-based practice in a clinical setting.

Requisites

Simple Requirements

Enrolled in NURS6612

Type
Corequisite

Enrolled in Course NURS6612

Enroll in the following Courses:
- NURS6612 - Adult Health Primary Care II

NURS6614 - Primary Care Ped & Wmn Hlth

General

College/School
Whitson-Hester School of Nurs

Course Title
Primary Care Ped & Wmn Hlth

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6614

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on care of women during developmental transitions in their overall health and wellness, including family planning and infertility issues, as well as pregnancy and menopausal issues. This course also focuses on advanced nursing and healthcare management of children and adolescents. Course content includes developmental, physiological, pathological, and psychosocial changes relative to health maintenance, acute and chronic illnesses, and developmental transitions within the family context.

Requisites

Simple Requirements

Prerequisites: NURS 6104; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS 6102; NURS 6103; NURS 6610/NURS6611 Adult Hlth Primary Care I Pra.

Corequisite: NURS6615 Primary Care/Family: Practicum.

Requirements
COREQUISITES
NURS6615

NURS6615 - Primary Care/Family: Practicum

General

College/School
Whitson-Hester School of Nurs

Course Title
Primary Care/Family: Practicum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6615

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description
This course addresses primary health care needs of the entire family with a focus on children, adolescents, and women in rural, urban and underserved populations. Strategies for prevention, health promotion, and evidenced-based clinical management of both acute and chronic health concerns are examined across the lifespan of the client and family health populations.

Requisites

Simple Requirements

Prerequisites: NURS6104 Adv Pharmacology; NURS6101 Adv Health Assessment; NURS6102 Adv Health Assmt/Clinical; NURS6103 Adv Pathophysiology; NURS6610 Adult Health Primary Care I/NURS6611 Adult Hlth Primary Care I Pra.

Corequisite: NURS6614 Primary Care Ped & Wmn Hlth.

Requirements
COREQUISITES
NURS6614

NURS6616 - Final FNP Preceptorship

General

College/School
Whitson-Hester School of Nurs

Course Title
Final FNP Preceptorship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6616

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lab Hours

Lab Hours Min:
3

Course Description
This course focuses on the integration of previously gained knowledge and skills in the care of individuals, families and communities, including the underserved, rural, and urban settings emphasizing clinical prevention and the treatment of acute/chronic illness. It is designed to provide opportunities to apply theoretical and/or scientific knowledge to health promotion, diagnosis and management.

Requisites

Simple Requirements

Prerequisites: NURS6104 Adv Pharmacology; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS6102 Adv Health Assmt/Clinical; NURS6103 Adv Pathophysiology; NURS6610 Adult Health Primary Care I/NURS6611 Adult Hlth Primary Care I Pra; NURS6612 Adult Health Primary Care II/NURS6613 Adult Hlth Primary Care II; NURS6614 Primary Care Ped & Wmn Hlth/NURS6615 Primary Care/Family: Practicum.

NURS6631 - Pediatric Nursing I

General

College/School
Whitson-Hester School of Nurs

Course Title
Pediatric Nursing I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6631

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on health maintenance and health promotion for well children and their families.

Requisites

Simple Requirements

Prerequisite: NURS6000 Theoretical Foundations, NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical.

NURS6633 - Pediatric Nursing II

General

College/School
Whitson-Hester School of Nurs

Course Title
Pediatric Nursing II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6633

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to provide the advanced practice nurse with the necessary knowledge base to provide care for children and their families experiencing minor acute illness and chronic illness/disabilities. Content will emphasize common minor acute illnesses and chronic illness/disabilities typically seen in the ambulatory clinic site.

Requisites

Simple Requirements

Prerequisite: NURS6000 Theoretical Foundations, NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical.

NURS6635 - Adv Pediatric Nursing

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Pediatric Nursing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
NURS

Course Number
6635

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on health maintenance and health promotion for children and their families. Care for children and families experiencing both acute and chronic illness/disabilities are addressed.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, and NURS6104 Adv Pharmacology.

NURS6710 - Adv Family Psy Nursing I

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Family Psy Nursing I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is the first of three in the sequence of intervention and case management courses. It provides the foundation for the diagnosis and management of common psychiatric illnesses, behavioral health and developmental problems, and substance use disorders across the lifespan.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Corequisite: NURS6711 Adv Family Psy Nurs I: Pract.

Requirements
COREQUISITES
NURS6711

NURS6711 - Adv Family Psy Nurs I: Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Family Psy Nurs I: Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6711

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course focuses on care of adults in underserved, rural, and urban populations, and is designed to provide opportunities to apply theoretical and/or scientific knowledge to health promotion, diagnosis and management of identified mental illnesses. Students will apply their knowledge of advanced assessment, pathophysiology, and evidence-based practice in a clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology.

Corequisite: NURS6710 Adv Family Psy Nursing I.

Requirements
COREQUISITES
NURS6710

NURS6712 - Adv Fam Psy Nursing II

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psy Nursing II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6712

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an approach to advance nursing in the specialty care of individuals and families experiencing a psychiatric disorder utilizing different psychiatric health care delivery models.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS6710 Adv Family Psy Nursing I/NURS6711 Adv Family Psy Nurs I: Pract.

Corequisite: NURS6713 Adv Fam Psy Nurs II: Pract.

Requirements
COREQUISITES
NURS6713

NURS6713 - Adv Fam Psy Nurs II: Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psy Nurs II: Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6713

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course focuses on the advance nursing care of individuals and families experiencing a psychiatric disorder. Students will apply their knowledge of advanced assessment, pathophysiology and evidence-based practice in a clinical setting.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6012, NURS6013, NURS6103 Adv Pathophysiology, NURS6710 Adv Family Psy Nursing I/NURS6711 Adv Family Psy Nurs I: Pract.

Corequisite: NURS6712 Adv Fam Psy Nursing II.

Requirements
COREQUISITES
NURS6712

NURS6714 - Adv Fam Psy Nursing III

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psy Nursing III

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6714

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course focuses on management of common psychiatric illnesses in both adults and children.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS6710 Adv Family Psy Nursing I/NURS6711 Adv Family Psy Nurs I: Pract, NURS6712 Adv Fam Psy Nursing II/NURS6713 Adv Fam Psy Nurs II: Pract.

Corequisite: NURS6715 Adv Fam Psy Nurs III: Pract.

Requirements
COREQUISITES
NURS6715

NURS6715 - Adv Fam Psy Nurs III: Pract

General

College/School
Whitson-Hester School of Nurs

Course Title
Adv Fam Psy Nurs III: Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6715

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisites: NURS 6101, 6102, 6103, 6104, NURS 6710/6711, NURS 6712/6713. Corequisite: NURS 6714. this course incorporates psychotherapeutic and psychopharmacological intervention in the identification and management of complex psychiatric/mental health issues for diverse clients across the lifespan. Students will apply their knowledge of advanced assessment, pathophysiology and evidence-based practice in a clinical setting.

Requisites

Simple Requirements

Enrolled in NURS6714

Type
Corequisite

Enrolled in Course NURS6714

Enroll in the following Courses:
- NURS6714 - Adv Fam Psy Nursing III

NURS6716 - Final Psy Nurs Preceptorship

General

College/School
Whitson-Hester School of Nurs

Course Title
Final Psy Nurs Preceptorship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6716

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
This course builds on and synthesizes knowledge gained in the previous semesters. Psychotherapeutic and psychopharmacological interventions are integrated in the identification and management of complex psychiatric/mental health issues for diverse clients across the lifespan.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS6710 Adv Family Psy Nursing I/NURS6711 Adv Family Psy Nurs I: Pract, NURS6712 Adv Fam Psy Nursing II/NURS6713 Adv Fam Psy Nurs II: Pract, NURS6714 Adv Fam Psy Nursing III/NURS6715 Adv Fam Psy Nurs III: Pract.

NURS6910 - Role Trans to Cert/Practice

General

College/School
Whitson-Hester School of Nurs

Course Title
Role Trans to Cert/Practice

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6910

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The primary goal of this course is to prepare the FNP student for the AANP or ANCC Certification exam. Topics such as test plan and format, registration process, test taking strategies, and post exam procedures arc addressed. Students will explore common primary care diagnoses tested on the certification exams and take standardized tests to identify areas of weakness. All students will submit a post-graduation preparation plan that is approved by the instructors.

Requisites

Simple Requirements

Prerequisites: NURS6104 Adv Pharmacology; NURS5009 Health Assessment Lifespan/NURS6101 Adv Health Assessment; NURS6102 Adv Health Assmt/Clinical; NURS6103 Adv Pathophysiology; NURS6610 Adult Health Primary Care I/NURS6611 Adult Hlth Primary Care I Pra; NURS6612 Adult Health Primary Care II/NURS6613 Adult Hlth Primary Care II; NURS6614 Primary Care Ped & Wmn Hlth/NURS6615 Primary Care/Family: Practicum.

NURS6911 - Trans to Cert/Prac-Psy Nrs Pra

General

College/School
Whitson-Hester School of Nurs

Course Title
Trans to Cert/Prac-Psy Nrs Pra

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6911

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description
The primary goal of this course is to prepare the PMHNP student for the ANCC Certification exam. Topics such as test plan and format, registration process, test taking strategies, and post exam procedures are addressed. Students will explore common psychiatric mental health diagnoses tested on certification exams and take standardized tests to identify areas of weakness. All students will submit a post-graduation preparation plan that is approved by the instructors.

Requisites

Simple Requirements

Prerequisites: NURS6101 Adv Health Assessment, NURS6102 Adv Health Assmt/Clinical, NURS6103 Adv Pathophysiology, NURS6104 Adv Pharmacology, NURS6710 Adv Family Psy Nursing I/NURS6711 Adv Family Psy Nurs I: Pract, NURS6712 Adv Fam Psy Nursing II/NURS6713 Adv Fam Psy Nurs II: Pract, NURS6714 Adv Fam Psy Nursing III/NURS6715 Adv Fam Psy Nurs III: Pract.

NURS6990 - Scholarly Synthesis

General

College/School
Whitson-Hester School of Nurs

Course Title
Scholarly Synthesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
NURS

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
As a culminating experience, this course provides the student with the opportunity to synthesize knowledge in the major or concentration area of study.

Requisites

Simple Requirements

Prerequisite: All MSN coursework.

Corequisite: Based on area of concentration NURS6209 Nursing Education Practicum and NURS6309 Nursing Admin Practicum.

PC5840 - Special Problems

General

College/School
Arts and Sciences

Course Title
Special Problems

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Senior standing or consent of instructor. Independent work in mass media research and report writing, or internship programs in print or electronic media, public relations, and other areas. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

PC5850 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5850

Credit Hours

Credit Hours
Min :
3

Credit Hours
Max :
12

Contact Hours

Contact Hours
Min :
3

Contact Hours
Max :
12

Billing Hours

Billing Hours
Min :
3

Billing Hours
Max :
12

Course Description
Part-time or full-time employment in a business, industrial, or institutional communications setting related to student academic and career goals. Course may be repeated for up to a total of nine credit hours. Undergraduate students may not take more than nine credit hours of the internship during their degree programs. Graduate students may take no more than six credit hours of PC 5850 during their degree programs.

Requisites

Simple Requirements

Prerequisites: PC4940 Technical Editing(PC5940 Technical Editing) or PC4970 Professional Comm II(PC5970 Professional Comm II).

PC5940 - Technical Editing

General

College/School
Arts and Sciences

Course Title
Technical Editing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles and practices of technical editing. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: ENGL4970 Professional Comm II(ENGL5970 Professional Comm II)/PC4970 Professional Comm II(PC5970 Professional Comm II). PC3250 Professional Comm I(ENGL3250 Professional Comm I).

PC5950 - Topics in Prof/Tech Comm

General

College/School
Arts and Sciences

Course Title
Topics in Prof/Tech Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: ENGL 3250 or PC 3250. In-depth study of topics relevant to the field of Professional and Technical Communication. Course may be repeated provided the content is different.

Requisites

PC5970 - Professional Comm II

General

College/School
Arts and Sciences

Course Title
Professional Comm II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5970

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A continuation of PC 3250 with emphasis on more complex reports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: ENGL3250 Professional Comm I or PC3250 Professional Comm I.

PC5990 - Bus/Grant Proposal Writing

General

College/School
Emerging and Integrative Studies

Course Title
Bus/Grant Proposal Writing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
5990

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory and practical experience developing business and grant proposals.

Requisites

Simple Requirements

Prerequisite: None

PC6030 - Core Iss/Rsrch-Prof Tech Comm

General

College/School
Arts and Sciences

Course Title
Core Iss/Rsrch-Prof Tech Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
6030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Focuses on ways social action, political contexts, and participants within workplace environments produce successful communication genres in the fields of Professional and Technical Communication. The course also provides perspectives on current research methodologies and practices.

Requisites

Simple Requirements

Prerequisites: None

PC6040 - Sp Top: PTC and Industry

General

College/School
Arts and Sciences

Course Title
Sp Top: PTC and Industry

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PC

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Completed B.A. in English and admission to the English M.A. Program, or permission of the graduate advisor. Focuses on theories, principles, and practices relevant to professional and technical communication industries. Includes research components as well as workplace applications. Course may be repeated twice provided the topic is different.

Requisites

PC6050 - The Rhetoric of STEM Prof

General

College/School
Arts and Sciences

Course Title
The Rhetoric of STEM Prof

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PC

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Highlights the production of scientific writing, such as engineering, legal, and medical discourses, including social contexts that produce them. Includes instruction in field-specific technical writing documents, formats, and styles, including documentation styles and presentation of research.

Requisites

Simple Requirements

Prerequisites: None

PC6060 - Digital Design

General

College/School
Arts and Sciences

Course Title
Digital Design

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PC

Course Number
6060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This course introduces students from a variety of backgrounds to the theory and practice of digital design, including creating content for professional, technical, and scientific settings; design strategies and application; and methods of usability. Projects include analysis of current documents, prototyping a set of instructions or training modules, usability testing, and presenting recommendations for improvement.

Requisites

PC6850 - Internship in Professional and Technical Communication

General

College/School
Arts and Sciences

Course Title
Internship in PTC

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PC

Course Number
6850

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
6

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
3

Lecture Hours Max:
6

Course Description
Part-time employment or experiential, project-based learning in a business, industrial, or institutional communications setting, related to student academic and career goals. Students identify a client project as a focus of their work and write both a progress report and a recommendation report as a way to contextualize their project within the internship setting. Students complete a research paper applying research and theories learned in their graduate coursework to the communication practices developed in the internship.

Requisites

PHYS5900 - Selected Topics in Physics

General

College/School
Arts and Sciences

Course Title
Selected Topics in Physics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PHYS

Course Number
5900

Credit Hours

Credit Hours Min :
3

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
3

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
3

Billing Hours Max :
9

Course Description
Topics covered will be chosen on the basis of student interest and need.

Requisites

Simple Requirements

Prerequisites: None

POPC5010 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Undergraduate

Course Subject Code
POPC

Course Number
5010

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Course Description
Special topics in popular culture. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

POPC5050 - Sci Fiction and Fantasy

General

College/School
Arts and Sciences

Course Title
Sci Fiction and Fantasy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
POPC

Course Number
5050

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Analysis and discussion of themes, conventions, and stereotypes in short stories, novels, and films. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

POPC5060 - Detective Fiction

General

College/School
Arts and Sciences

Course Title
Detective Fiction

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
POPC

Course Number
5060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Private detectives, policemen, spies in fiction. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

PRST5100 - Adult Learning

General

College/School
Emerging and Integrative Studies

Course Title
Adult Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Graduate status. Exploration of the principles of adult learning and the application of these principles to teaching, training, and personal development.

Requisites

Simple Requirements

Prerequisite: Graduate status.

PRST5310 - Ethics and AI: The Good, the Bad, and the Unknown

General

College/School
Emerging and Integrative Studies

Course Title
Ethics and AI: The Good, Bad

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
PRST

Course Number
5310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The Ethics and AI course will provide graduate students an opportunity to explore ethical implications and societal impacts of using emerging AI technologies (e.g., Microsoft Copilot, ChatGPT, iPhone AI editing, Voice Generation).

Requisites

Simple Requirements

No prerequisites.

PRST6040 - Human Resources Mgmt

General

College/School
Emerging and Integrative Studies

Course Title
Human Resources Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of theories, policies, procedures, practices and regulations relevant to attracting, retaining, and directing a competent work force. Analysis of basic personnel functions with emphasis on the fact that all managers are "personnel managers". Integration of scientific theory, procedures, instruments and federal regulations into personnel selections, placements and security programs.

Requisites

PRST6100 - Prof Environmntl Issues/Ethics

General

College/School
Emerging and Integrative Studies

Course Title
Prof Environmntl Issues/Ethics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Overview of ethics in general, with practical tools for assessing ethical dimensions of professional life, diagnosing or identifying the moral issues at hand, and then developing reasonable options to address particular moral and ethical issues.

Requisites

Simple Requirements

Prerequisites: None

PRST6105 - Project Planning & Scheduling

General

College/School
Emerging and Integrative Studies

Course Title
Project Planning & Scheduling

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6105

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course introduces project planning the management and scheduling aspect for industry leaders. The content will focus on foundational principles of project management and on creating a project plan. Involved in this plan will be defining the scope and goals of a project, breaking it down into manageable tasks, estimating timeframes for each task, and creating a timeline to ensure the project is completed on time, with key elements including identifying project objectives, building a work breakdown structure, assigning resources, determining dependencies between tasks, and visualizing the schedule using tools.

Requisites

PRST6110 - Leadership and Communication

General

College/School
Emerging and Integrative Studies

Course Title
Leadership and Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to introduce students to leadership perspectives and the role communication plays in effective leadership and management strategies.

Requisites

Simple Requirements

Prerequisites: Graduate status and admission to the Master of Professional Studies degree program or departmental approval.

PRST6120 - Managing Communication

General

College/School
Emerging and Integrative Studies

Course Title
Managing Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on communications that flow from manager to team members and employees. We will explore just how communication works (and fails to work) when multiple people are involved. You will be required to read a variety of articles (as mentioned above) and view a number of videos concerning communication. You are likely familiar with Ted Talks. We will use a number of those in the class. I invite you to look for others that are germane to the class. All of these are designed to enhance your understanding of what is a critically important field of study.

Requisites

Simple Requirements

Prerequisites: None

PRST6200 - Globalization & the Profession

General

College/School
Emerging and Integrative Studies

Course Title
Globalization & the Profession

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The purpose of this course is to assess the impact of globalization on professional life. The course examines globalization as it relates to commerce, information flow, mass media, government, health care and education.

Requisites

Simple Requirements

Prerequisites: None

PRST6300 - Research Methods

General

College/School
Emerging and Integrative Studies

Course Title
Research Methods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The student and application of research methods appropriate to professional studies. The coursewill provide a general introduction to research methods, as well as providing practical exposureto Problem Statements, Literature Reviews, Writing the Research Proposal, and Organization ofthe Research Report. Quantitative and Qualitative Research methodologies will be covered.

Requisites

Simple Requirements

Prerequisites: None

PRST6310 - Leadership in Organization

General

College/School
Emerging and Integrative Studies

Course Title
Leadership in Organization

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Designed to inform the individual about the structure and behavior of actors at all levels of the organization. Through various exercises such as written assignments and discussion, the student will be able to understand "why" and "how" organizations operate and function under dynamic leadership.

Requisites

Simple Requirements

Prerequisites: None

PRST6330 - Interntl Iss/EDU Policy-Pract

General

College/School
Emerging and Integrative Studies

Course Title
Interntl Iss/EDU Policy-Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the policy and practice of primary and secondary education in select OECD countries as well as the developing world. It will cover issues of pedagogy, professionalism, leadership, finance, accountability, efficiency, and equity. Consideration will be given to the role of international agencies and non-governmental organizations in influencing policy and development. Attention will also be given to such issues as private vs. public provision, corruption, social cohesion, education for immigrants and refugees, and education as a basic human right.

Requisites

Simple Requirements

Prerequisites: None

PRST6340 - Teaching/Learning in Higher ED

General

College/School
Emerging and Integrative Studies

Course Title
Teaching/Learning in Higher ED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6340

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
1

Course Description
This course provide the tools, perspectives, and best practices in teaching and learning in higher education for people who teach, or aspire to teach, at the college level.

Requisites

Simple Requirements

Prerequisites: None

PRST6400 - Instructional Dsgn/Trning-Devl

General

College/School
TN eCampus Degree

Course Title
Instructional Dsgn/Trning-Devl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

PRST6410 - Evaluation of Learning

General

College/School
TN eCampus Degree

Course Title
Evaluation of Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

PRST6420 - Organizational Needs Analysis

General

College/School
Emerging and Integrative Studies

Course Title
Organizational Needs Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6420

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

The purpose of this course is to provide an overview of the processes and techniques used to conduct an organizational analysis and then identify training needs in private and public organizations. This course is designed to build theoretical as well as practical knowledge and skills for employees who are not necessarily human resource professionals.

Requisites

PRST6421 - Strategic Org Prog Plan/Eval

General

College/School
Emerging and Integrative Studies

Course Title
Strategic Org Prog Plan/Eval

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6421

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Developing a comprehensive understanding of the fundamentals of strategic organizational program planning and evaluation with a focus on relevance of strategic planning, effective and efficient program delivery plans with formative and summative evaluations for intentional learning and practical application in the workplace.

Requisites

Simple Requirements

Prerequisites: None

PRST6430 - Adv Instr Design/Training & Dvlpment

General

College/School
TN eCampus Degree

Course Title
Adv Instr Dsgn/Trning-Dvlpmnt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

PRST6440 - Teaching On-Line

General

College/School
TN eCampus Degree

Course Title
Teaching On-Line

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6440

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

PRST6450 - Computer-Based Tech/ E-Training

General

College/School
Regents Online Degree

Course Title
Computer-Based Tech/E-Training

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: None

PRST6470 - Facilitation of Learning

General

College/School
Emerging and Integrative Studies

Course Title
Facilitation of Learning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6470

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to prepare trainers to design and facilitate training programs that will work effectively and efficiently with adult learners. It will provide the necessary theory and experience to ensure competent facilitation of learning. Students will plan and conduct training sessions andreceive feedback on their style of facilitation. Prerequisites: This course is a core course in the Master of Professional Studies degree program.Enrollment is limited to students who have been admitted into the Master of Professional Studies program or departmental approval. PRST 5400/6400/7400 and PRST 5430/6430/7430 are also required.

Requisites

Simple Requirements

Prerequisites: None

PRST6500 - Foundations of Leadership

General

College/School
Emerging and Integrative Studies

Course Title
Foundations of Leadership

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Students will study leadership from a historical and contemporary perspective. Topics cover historical development, leadership theories, personal assessment, values and ethics, motivation, power, followership, group dynamics, diversity, controversy with civility, change process, and citizenship.

Requisites

Simple Requirements

Prerequisites: None

PRST6530 - Healthcare Systems Economics

General

College/School
Emerging and Integrative Studies

Course Title
Healthcare Systems Economics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6530

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
It is expected that this course will facilitate your understanding of the traditional issues in health economics. This course will improve and broaden your knowledge of healthcare systems economics by exploring historical and current economic principles that guide the healthcare system. You will realize how the economy of our healthcare systems has reached the current status. This realization will be as a result of better understanding the impact of an aging population, the malpractice risk, the role of competition and government regulation, and the incentives used by pharmaceuticals and managed care insurers as they drive the healthcare systems. We will explore the health insurance market and managed care, the market for physicians' services, cost of healthcare in hospitals and other healthcare venues, labor issues, cost effectiveness analysis, equity and efficiency, role of government in the health economy, Medicaid and Medicare, international comparisons, and national health insurance.t

Requisites

Simple Requirements

Prerequisites: None

PRST6540 - Health Informatics

General

College/School
Emerging and Integrative Studies

Course Title
Health Informatics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6540

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is intended to expose students to the field of health informatics and to give them an understanding in the history, processes, and application of this field in the healthcare delivery system in the United States. Since health informatics is interdisciplinary, students must have already completed introductory courses in statistics, public health (or related subject), computer programming, and economics. Upon completion of this course, students will have a better understanding of healthcare delivery, the specific areas within health informatics, the application of computer technology in healthcare delivery, and the techniques, methodologies, and tools used in health informatics.

Requisites

Simple Requirements

Prerequisite: None.

PRST6550 - Comp-Based Dec Modlng-Hlth Adm

General

College/School
Emerging and Integrative Studies

Course Title
Comp-Based Dec Modlng-Hlth Adm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide an introduction to the principles and practice of decision modeling for financial and operational evaluation in the healthcare industry. Basic business spreadsheet techniques will be used to create models for strong decision support to assist in optimizing business decisions. It will introduce the use of statistical analysis and model development to health administration, healthcare program develop and evaluation, healthcare information management, emphasizing the use of computer technology (specifically MS Excel) across these areas.

Requisites

Simple Requirements

Prerequisite: None.

PRST6560 - Bio Sciences for Hlthcr Admin

General

College/School
Emerging and Integrative Studies

Course Title
Bio Sciences for Hlthcr Admin

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6560

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The focus of the course is to provide healthcare administrators with a basic understanding of the pathophysiological principles, as well as drug classes used, in the treatment of common medical diagnoses requiring admission to healthcare facilities.

Requisites

Simple Requirements

Prerequisite: None.

PRST6570 - Public Health

General

College/School
Emerging and Integrative Studies

Course Title
Public Health

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The focus of this course is to explore the history and impact of public health initiatives in the United States and globally. Students will become familiar with public and private organized measures to prevent disease, promote health, and increase the quality of life among diverse populations. Students will learn to assess and monitor the overall health of populations, and use data to contribute to public health policy.

Requisites

Simple Requirements

Prerequisite: None.

PRST6580 - Understanding Mental Health

General

College/School
Emerging and Integrative Studies

Course Title
Understanding Mental Health

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6580

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
In this course, we will examine the history and impact of mental health on public health. As well as promoting healthy lifestyles, public health works to detect, prevent, and respond to disease. People's mental health has a profound impact on their physical and social well-being, making mental health an essential public health issue.

Requisites

Simple Requirements

Prerequisite: Acceptance into Graduate School.

PRST6590 - Fraud, Waste, and Abuse for Healthcare Administrators

General

College/School
Emerging and Integrative Studies

Course Title
Frd, Wst, Abuse Hlthcre Admin

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6590

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Fraud, Waste, and Abuse (FWA) in the United States is unfortunately highly pervasive and extremely detrimental to all facets of health care delivery. This special topic, Fraud, Waste, and Abuse for Healthcare Administrators, focuses on real-world situations and examples which illustrate how destructive these activities are to providers, payers, and, most importantly, patients. This course will focus on a different topic each week to assist the student in understanding (1) where the nearly 25% of all erroneous medical payments occur, (2) why so much money is lost to fraud, waste and abuse each year, and (3) how different analytic and investigative techniques are best applied to help regulate these issues. In addition to the reading and examples provided in class, students will participate in weekly threaded discussions and chat. Students also learn how to conduct a health care fraud investigation through applying techniques learned in this course to a fictional case. This course covers FWA from two perspectives: (1) statistical and analytical processes to identify potential FWA and (2) investigation techniques to impede future FWA.

Requisites

Simple Requirements

Prerequisite: None

PRST6600 - Statistical Analysis

General

College/School
Emerging and Integrative Studies

Course Title
Statistical Analysis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PRST 6300. Analytical decision making including statistics, quantitative methods, and other optimization and simulation models.

Requisites

PRST6700 - Conflict Management and Negotiation

General

College/School
Emerging and Integrative Studies

Course Title
Conflict Mgmt & Negotiation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Negotiation and Conflict Management presents negotiation theory—strategies and styles—within an employment context. A different topic will be presented each week. Students practice negotiating and learn how to negotiate in difficult situations.

Requisites

Simple Requirements

Prerequisite: None.

PRST6710 - Risk Assessment & Prevention

General

College/School
Emerging and Integrative Studies

Course Title
Risk Assessment & Prevention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6710

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides discussion for risk assessment and vulnerability analysis application to manmade and natural disasters. The course will also review methods for preparing public safety personnel, and the communities they serve, for potential disaster and emergency response.

Requisites

Simple Requirements

Prerequisite: None.

PRST6720 - Crisis Response Management

General

College/School
Emerging and Integrative Studies

Course Title
Crisis Response Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6720

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on response issues surrounding a natural or manmade crisis/disaster. Afocus will be given to Commanding, Controlling, Communicating, Coordinating, andCooperating during a crisis according to NIMS/ICS standards.

Requisites

Simple Requirements

Prerequisite: None.

PRST6721 - Managing Emergency Volunteers

General

College/School
Emerging and Integrative Studies

Course Title
Managing Emergency Volunteers

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6721

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will focus on the management and benefits of using Internal Volunteer Organization, External Volunteer Organizations, and Spontaneous Volunteers to support an agency’s prepardness and increase capacities during crises response incidents, emergencies, or disasters. The course includes an overview of Managing Community donations.

Requisites

Simple Requirements

Prerequisite: None.

PRST6730 - Leadership in Public Safety

General

College/School
Emerging and Integrative Studies

Course Title
Leadership in Public Safety

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the history and development of leadership within public safety organizations. Principles, styles, and theories of leadership, management, and administration are discussed.

Requisites

Simple Requirements

Prerequisite: None.

PRST6740 - Diversity in Public Safety

General

College/School
Emerging and Integrative Studies

Course Title
Diversity in Public Safety

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6740

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the impact of diversity, culture, and ethnic origin on public safety response and assessment, and is designed to better prepare individuals to meet the challenge of cultural diversity in organizations. Attention is given to how language, tradition, gender, age, race, education, economic structure, and organizational philosophy interact to create a set of rules for acceptable behaviors in complex organizations and society.

Requisites

Simple Requirements

Prerequisite: None.

PRST6750 - Preparedness and Mitigation

General

College/School
Emerging and Integrative Studies

Course Title
Preparedness and Mitigation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6750

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is intended to provide a more focused discussion of preparedness and mitigation as itrelates to homeland security and emergency management. This course will address strategicplanning and mitigation measures that create effective preparedness and mitigation plans. Thecourse will also cover federal government policies, procedures, and funding opportunities forpublic safety organizations.

Requisites

Simple Requirements

Prerequisite: None.

PRST6751 - Global Terrorism-Pndmc/ Epidmcs

General

College/School
Emerging and Integrative Studies

Course Title
Global Terrorism-Pndmc/Epidmcs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6751

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides the various tools needed for public health and public safety agencies to overcome pandemics and epidemics. The students will learn how to identify the differences between pandemics, epidemics, and outbreaks and to overcome these incidents. Throughout this class, they will research various mitigation measures and preparedness efforts related to pandemics/epidemics. Students will learn mitigation strategies to ensure that critical infrastructure and essential work can be functional during a pandemic or epidemic, even if key personnel are unavailable. The course will look at the potential risks of a bioterrorist attack and the ways that bioterrorism might be perpetrated. Students will research acts of bioterrorism and utilize critical thinking skills needed to prevent bioterrorist attacks. Learners will learn the importance of communication and collaboration during an incident, including communicating with the public and those with special needs. An overview of the importance of mapping in pandemics/epidemics and free resources are taught.

Requisites

Simple Requirements

Prerequisite: None.

PRST6755 - Surviving an Active Shooter

General

College/School
Emerging and Integrative Studies

Course Title
Surviving an Active Shooter

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6755

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course Description: Mass violence and active shootings are not new phenomena. In this course, students will take a historical look at acts of mass violence. They will learn to appreciate that the “It won’t happen to me” perspective can be the largest barrier to protection from mass violence. Part of protection involves being informed about the importance of and how to improve situational awareness. Students will also learn strategies to increase survivability in an active shooter situation. They will discover how to potentially save lives. Equally important is knowing what public safety entities will do during and immediately after a mass shooting. The final piece of this course is discovering how to assist victims and their families for the months and years after an incident.

Requisites

Simple Requirements

Prerequisites: None

PRST6760 - Funding in Public Safety

General

College/School
Emerging and Integrative Studies

Course Title
Funding in Public Safety

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6760

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide an overview of fiscal requirements for public safety organizations. Thiswill include budget concerns, payroll, and liability issues, as well as grant acquisition.

Requisites

Simple Requirements

Prerequisite: None.

PRST6770 - Computer-Based Decision Model

General

College/School
Emerging and Integrative Studies

Course Title
Computer-Based Decision Model

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6770

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics covered within the course include basic business spreadsheet modeling, decision support using spreadsheet models, and optimization of business decisions using spreadsheet models. Models will be multidisciplinary in nature, stemming from areas such as operations, finance, and management. The contextual interpretation of results and their use in decisions will be emphasized.

Requisites

PRST6780 - Intelligence Gathering

General

College/School
Emerging and Integrative Studies

Course Title
Intelligence Gathering

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6780

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the theoretical and analytical concepts for gathering intelligence. A brief history of gathering and current concerns/trends will also be examined. The course will cover approaches used in public safety agencies including law enforcement, homeland security, and others.

Requisites

Simple Requirements

Prerequisite: None.

PRST6781 - Science of Contact Tracing

General

College/School
Emerging and Integrative Studies

Course Title
Science of Contact Tracing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6781

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
During the COVID-19/SARS-CoV-2, many members of the public learned about contact tracing for the first time. During the pandemic response, we saw the media speak about the many hours of work that were undertaken by these contact tracers. Relatively few individuals know much about the science of contact tracing. In this course, students will learn the principles of contact tracing, the management of identified cases, and best practices for managing teams of contact tracers. Students will learn the necessary investigative skills needed for contact tracing and various strategies that can be used to jog the memory of an infected patient. Principles are also taught dealing with secretive patients, and even more importantly, the principles of case management for infected patients. Students will also learn the principles of leading a contact tracing team.

Requisites

Simple Requirements

Prerequisite: None.

PRST6790 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6790

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Consent of the instructor. Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

PRST6791 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6791

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6792 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6792

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6793 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6793

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6794 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6794

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6795 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6795

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6796 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6796

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6797 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6797

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6798 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6798

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6799 - Special Topics

General

College/School
Emerging and Integrative Studies

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6799

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in professional studies. Students may take a total of up to 6 hours of Special Topic hours but no more than 3 hours on a single topic.

Requisites

Simple Requirements

Prerequisite: Consent of the instructor.

PRST6800 - Organizational Skills/Dvlpmnt

General

College/School
Emerging and Integrative Studies

Course Title
Organizational Skills/Dvlpmnt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of theory, practice and skills involved in leading organizational change, including: aligning change with the organizational strategy, understanding changes as part of a system, understanding the dynamics of and managing resistance to change, creating a vision to inspire others to become a part of the change process, the use of goal setting, feedback and incentives to promote change, and aligning individual's roles to support change. The course will blend learning from the texts and skill building.

Requisites

Simple Requirements

Prerequisite: None.

PRST6810 - Masters of Prof Studies Internships

General

College/School
Emerging and Integrative Studies

Course Title
Masters of Prof St Internships

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Internships offer the student an opportunity to observe and work in a professional setting while gaining valuable "on-the-job training." Internships for the Master of Professional Studies program should fit within the framework of the intern's concentration area (Strategic Leadership, Human Resource Leadership, Training and Development, Healthcare Administration, or Project Management). The intern must complete 150 hours of work to receive three hours of credit.

Requisites

Simple Requirements

Prerequisite: None.

PRST6820 - Intro: Project Mgmt Expec/Meth

General

College/School
Emerging and Integrative Studies

Course Title
Intro: Project Mgmt Expec/Meth

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6820

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to equip the student with the needed background to apply for introductory-level roles in project management. Project managers play a key role in leading, planning and implementing critical projects to help their organizations succeed. In this course, students will discover foundational project management terminology and gain a deeper understanding of the role and responsibilities of a project manager.

PRST6830 - Project Mgmt Process/Dev Strat

General

College/School
Emerging and Integrative Studies

Course Title
Project Mgmt Process/Dev Strat

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The world of project management is changing. Industry no longer relies on a single project management process to complete all project work, isntead they use multiple processes all tailored to their needs. This course is designed to take a deep dive view in the world of project management processes leveraged in industries today. At the complete of the class, students will have a better understanding of the processes to include predictive (Waterfall), adaptive (SCRUM), and hybrid processes.

Requisites

Simple Requirements

Prerequisite: None.

PRST6840 - Project Mgmt: Schedule & Fin

General

College/School
Emerging and Integrative Studies

Course Title
Project Mgmt: Schedule & Fin

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6840

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is designed to take a deep approach into both the schedule and financial activities used by project managers today. In this class, students will learn how to both plan and estimate activities to include how to create a schedule baseline, develop a network diagram, estimate activity durations, and develop a schedule and build financial estimates. In addition, students will learn critical terms such as critical path, late start, late finish, early start, and early finish.

PRST6850 - PM: Risk, Assessment & Quality

General

College/School
Emerging and Integrative Studies

Course Title
PM: Risk, Assessment & Quality

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6850

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an overview of risk mitigation with a focus on project management models, risk assessment include FMEA analysis, and includes a comprehensive introduction to standards organization and their purpose. Course topics will include: (a) continuous risk assessment models, (b) continuous process improvement, (c) LEAN Management principles, and (d) Make or Break Quality assessment. Case studies will be analyzed in each area, and each student will be required to assess and develop mitigation strategies relating to risk and quality management.

Requisites

Simple Requirements

Prerequisite: None.

PRST6860 - Proj Mgt: Conflict Mgt in Proj

General

College/School
Emerging and Integrative Studies

Course Title
Proj Mgt: Conflict Mgt in Proj

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Project managers routinely deal with conflict, both from internal and external sources. This course will explore effective conflict resolution strategies within a project management environment. Students will develop conflict resolution skills while addressing scarce resources, lines of authority, team building, conflicting goals and expectations, time lines, and other conflict creating variables.

Requisites

Simple Requirements

Prerequisite: None.

PRST6870 - Project Mgmt for IT Profession

General

College/School
Emerging and Integrative Studies

Course Title
Project Mgmt for IT Profession

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6870

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an overview of strategic project planning and execution in IT delivery and administration with a focus on project management models, tools, planning, analysis, and assessment. This course explores strategies to provide successful oversight of information technology projects that an organization undertakes. Topics include planning, budgeting, executing, leading, troubleshooting, and maintaining IT projects.

Requisites

Simple Requirements

Prerequisite: None.

PRST6880 - Project Mgmt for Hlthcare Admn

General

College/School
Emerging and Integrative Studies

Course Title
Project Mgmt for Hlthcare Admn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6880

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an overview of strategic project planning and execution in healthcare delivery and administration with a focus on project management models, tools, planning, analysis, and assessment. Course topics will include: (a) healthcare strategy development, (b) market structures and product life cycle, (c) business model development and disruptive innovation, (d) stakeholders and organizational goals, and (e) implementing, monitoring, and evaluating strategies. Case studies will be explored, and each student will be required to develop a strategic project plan on a topic aligned with their healthcare interests.

Requisites

Simple Requirements

Prerequisite: None.

PRST6910 - Employment & Human Resources

General

College/School
Emerging and Integrative Studies

Course Title
Employment & Human Resources

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6910

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None.

PRST6911 - Constitution & Society

General

College/School
Emerging and Integrative Studies

Course Title
Constitution & Society

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6911

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course uses critical thinking skills to study how the Constitution impacts society from an historical, legal and political perspective. A review of the entire Constitution, including the Amendments, is covered with emphasis on the first three Articles of the Constitution and the First, Second, Fourth, Fifth, Eighth, and fourteenth Amendments. Also pertinent Supreme Course decisions and other primary and secondary sources are covered in this course. Prior study of the Constitution is not a prerequisite.

Requisites

Simple Requirements

Prerequisite: None

PRST6915 - Earning and Managing External Funds for Community and Research Development

General

College/School
Emerging and Integrative Studies

Course Title
Earn & Mng Fnds for Com & Rsch

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6915

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This Earning and Managing External Funds for Community and Research Development course will guide the students through the process of earning funding for their research programs through the submission of well-developed grants.

Requisites

Simple Requirements

Prerequisites: None

PRST6920 - Diversity in the Workplace

General

College/School
Emerging and Integrative Studies

Course Title
Diversity in the Workplace

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None.

PRST6925 - Navigating the Future of Work: Remote Work Strategies and Beyond

General

College/School
Emerging and Integrative Studies

Course Title
Nav The Future of Work Rmt Stg

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6925

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course, "Navigating the Future of Work: Remote Work Strategies and Beyond," delves into the multifaceted world of remote work, equipping students with the knowledge and skills necessary to thrive in this evolving employment paradigm.

Requisites

Simple Requirements

Prerequisites: None

PRST6930 - Compensation and Benefits

General

College/School
Emerging and Integrative Studies

Course Title
Compensation and Benefits

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

PRST6940 - Recruitmnt/Selectn/Retentn

General

College/School
Emerging and Integrative Studies

Course Title
Recruitmnt/Selectn/Retentn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6940

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

PRST6960 - Digital Audience Behavior Analysis and Insights

General

College/School
Emerging and Integrative Studies

Course Title
Dig Aud Behvr Anal & Insights

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6960

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is dedicated to exploring communication behavior and audience research. The course explores behaviors, during and after a communication message. It investigates the impact of social media in the digital age.

Requisites

Simple Requirements

Prerequisites: None

PRST6970 - Media Theory and Effects

General

College/School
Emerging and Integrative Studies

Course Title
Media Theory and Effects

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6970

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is an analysis of historical and current theories of mass communication with an emphasis on media effects and the application of mass communication theory to social, political, economic, legal and ethical aspects of modern society. The course begins by providing a framework for evaluating mass communication theory, then focuses on deconstructing and applying four main theories (diffusion of innovation, uses and gratifications, social learning theory, and agenda setting), as well as a range of related mass communication theories.

Requisites

Simple Requirements

Prerequisites: None

PRST6980 - Strategic Communication

General

College/School
Emerging and Integrative Studies

Course Title
Strategic Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6980

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course uses communicators and real communication decisions to introduce students to communication strategies. It examines social, economic, technological, legal, ethical, and other environmental factors and their impact on communication practices using real-world applications. It provides students with the knowledge and skills needed to communicate products, services, and ideas in a global marketplace.

Requisites

Simple Requirements

Prerequisites: None

PRST6990 - Design Strategies and Promotions

General

College/School
Emerging and Integrative Studies

Course Title
Dsgn Strategies & Promotions

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PRST

Course Number
6990

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course will provide graduate students an opportunity to research the subliminal effects of various graphic design structures and tools on consumers' decision-making processes.

Requisites

Simple Requirements

Prerequisites: None

PRST6998 - Professional Project

General

College/School
Emerging and Integrative Studies

Course Title
Professional Project

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PRST

Course Number
6998

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Cross-listing: COMM 6998. The Professional Project is the last requirement for the MPS Degree, serving as the integrative culmination of the program of study. It should be a substantial piece of independent research or a significant professional project that is logically consistent with the theme and content of the program of study. Student's work should demonstrate familiarity with and understanding of a body of professional literature related to a specific topic. The Project should grow out of the program of study and should demonstrate the student's ability to use the knowledge gained from this program of study. Students acquiring additional Masters of Professional Studies degrees will be allowed to repeat the PRST 6998 Professional Project course with the emphasis on their current program of study.

Requisites

PSY5050 - Learning & Cognition

General

College/School
Education and Human Sciences

Course Title
Learning & Cognition

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theory, research, and applications in human learning, memory and cognitive processes. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

PSY5100 - Child Psychology

General

College/School
Education and Human Sciences

Course Title
Child Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY2010 and PSY 3200. Hereditary and environmental influence on physical and psychological growth. Cognitive, affective, and language development of infant and child with an emphasis on disorders and problems in development. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: PSY 1030 and PSY 2130.

PSY5120 - Sensation and Perception

General

College/School
Education and Human Sciences

Course Title
Sensation and Perception

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course is an introduction to the field of sensation and perception, a subdiscipline of neuroscience.

Requisites

Simple Requirements

Prerequisite: Senior standing

PSY5130 - Brain and Behavior

General

College/School
Education and Human Sciences

Course Title
Brain and Behavior

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 2010 and 3 additional PSY credits. Biological approach to understanding behavior. Students will focus on the anatomy and physiology of the nervous system in reference to behavior, perception, mental disorders, and drug addition. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: PSY 1030 and 3 additional PSY credits.

PSY5140 - Health Psychology

General

College/School
EH

Course Title
Health Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5140

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Minimum grade of C in PSY 3110 or consent of instructor. Biopsychosocial approach to examining how stress, personality, and lifestyle are related to physical health. Students will experientially explore a variety of coping strategies and relaxation techniques geared toward self-assessment and understanding. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 3110 or consent of instructor.

PSY5150 - Psy Of Personality

General

College/School
Education and Human Sciences

Course Title
Psy Of Personality

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Application of psychological principles to an understanding of personality, development, and interpersonal adjustments. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: PSY 1030.

PSY5160 - Abnormal Psychology

General

College/School
Education and Human Sciences

Course Title
Abnormal Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5160

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: PSY 1030 and 3 additional PSY credits. Nature of abnormal behavior, etiology, symptomatology and treatment. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: PSY 1030 and 3 additional PSY credits.

PSY5170 - Legal Psychology

General

College/School
Education and Human Sciences

Course Title
Legal Psychology

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to representative areas of Legal Psychology. Applying knowledge and theories from social, cognitive, and developmental psychology to issues facing the legal system.

Requisites

Simple Requirements

Prerequisite: Minimum of 45 credit hours earned and completion of PSY 1030

PSY5180 - The Psychology of Emotion: Theory and Research

General

College/School
Education and Human Sciences

Course Title
PSY of Emotion: Theory & Rsrch

Academic Level (Course Level)
Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5180

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of major theories and empirical research on emotion, including evolutionary theories, cognitive processes, and influence on behavior.

Requisites

Simple Requirements

Prerequisite: Minimum of 45 credit hours earned and completion of PSY 1030, minimum grade of C.

PSY5200 - Adolescent Psychology

General

College/School
Education and Human Sciences

Course Title
Adolescent Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Origin and principles of behavior with emphasis on educational problems in guiding growth and development of adolescents. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 1030.

PSY5250 - Intro To Psy Testing

General

College/School
Education and Human Sciences

Course Title
Intro To Psy Testing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5250

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Basic concepts in psychological testing; interpreting test scores; types of standardized tests. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 1030.

PSY5320 - Intro-Therapeutic Techq

General

College/School
Education and Human Sciences

Course Title
Intro-Therapeutic Techq

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 4150, 4160, or consent of instructor. An introduction to various therapeutic techniques including analytic, nondirective, and broadly based behavioral approaches. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 4150(5150), 4160(5160), or consent of instructor.

PSY5400 - Psychopharmacology

General

College/School
Education and Human Sciences

Course Title
Psychopharmacology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Junior standing. Drugs: the interaction between psychological and physiological effects on behavior. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior standing. PSY1030.

PSY5600 - Data Analytics in Psychology

General

College/School
Education and Human Sciences

Course Title
Data Analytics in Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5600

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
4

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
1

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Prerequisite: PSY 3010 and PSY 3111 with a B or better. Advanced topics in data analysis, graphing, and interpretation of psychological measures. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 3010 and PSY 3111 with a B or better.

PSY5800 - History Of Psychology

General

College/School
Education and Human Sciences

Course Title
History Of Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Theoretical systems, experiments, and personalities in the development of modern psychology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

PSY5810 - Concepts of Gerontology

General

College/School
Education and Human Sciences

Course Title
Concepts of Gerontology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 3200 or 3300 or SOC 1010. Physical and psychosocial aging processes. Issues in the care of the senior adult. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: PSY 2130 or PSY 3300 or SOC 1010.

PSY5850 - Orient Exp/School Couns Cands

General

College/School
Education and Human Sciences

Course Title
Orient Exp/School Couns Cands

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5850

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
1

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
1

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
1

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
1

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
1

Course Description
The course is designed to meet the recently approved Licensing Standards for School Counselor Pre K-12. School counselor candidates without teaching experience are mandated to have a semester-long orientation experience as an early part of the preparation program. This course utilizes in-school activities designed to provide observation of, participation in, and analysis of classroom instruction. The candidate will engage in teaching experiences (counseling) and feedback regarding the candidate's teaching.

PSY5903 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5903

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Prerequisite: Junior standing or consent of instructor. Concentration on a special topic in psychology. Course may be repeated if topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

PSY5913 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5913

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Junior standing or consent of instructor. Concentration on a special topic in psychology. Course may be repeated if topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

PSY5921 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5921

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

PSY5922 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5922

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

PSY5923 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
5923

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

PSY6310 - Educational Statistics

General

College/School
Education and Human Sciences

Course Title
Educational Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An introductory course in statistical methods applied to the solution of educational problems.

PSY6350 - Measurement and Assessment

General

College/School
Education and Human Sciences

Course Title
Measurement and Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of measurement and assessment; teacher made tests; standardized tests.

PSY6450 - Values, Ethics, & Legal Issues

General

College/School
Education and Human Sciences

Course Title
Values, Ethics, & Legal Issues

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
6450

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Awareness of self and societal values. Knowledge of ethic standards of practice and legal issues in the field.

PSY6930 - Interpret/Apply Psy Rsrch

General

College/School
Education and Human Sciences

Course Title
Interpret/Apply Psy Rsrch

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
6930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 6310 or comparable course. Designed for students selecting the non-thesis option in Educational Psychology and Counselor Education. Designed specifically for the research consumer (practitioner) utilizing field-based applications of research and statistical principles for school and nonschool mental health settings.

Requisites

Simple Requirements

Prerequisite: PSY 6310 or comparable course.

PSY6940 - Directed Experience in Psy I

General

College/School
Education and Human Sciences

Course Title
Directed Experience in Psy I

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
6940

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

Course Description

Prerequisite: Consent of Department Chairperson. Directed Study in an area of psychology.

PSY6941 - Directed Exp in Psychology II

General

College/School
Education and Human Sciences

Course Title
Directed Exp in Psychology II

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
6941

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Course Description

Prerequisite: Consent of Department Chairperson. Directed Study in an area of psychology.

PSY6990 - Research and Thesis

General

College/School
Education and Human Sciences

Course Title
Research and Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
6990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
9

PSY7000 - Life Span Development

General

College/School
Education and Human Sciences

Course Title
Life Span Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7000

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description

Focus on developmental theories in understanding the physical, cognitive, and psychological development across the life span.

PSY7100 - Intro to School Psychology

General

College/School
Education and Human Sciences

Course Title
Intro to School Psychology

Academic Level (Course Level)
Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
PSY 7100 is designed to equip school psychology students with foundational competencies essential to the profession. The course covers the history and development of school psychology, the various roles and responsibilities of school psychologists, and key professional issues and standards.

Requisites

Simple Requirements

Graduate Admission

Type
Prerequisite

Additional Comments:
Students must be admitted to the School Psychology program before taking PSY 7100.

PSY7170 - Consultation/Edu Setting

General

College/School
Education and Human Sciences

Course Title
Consultation/Edu Setting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7170

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: COUN 6362. Study of a broad range of educational and behavioral consultation techniques; specifically designed as an intervention course for the school counselor and other school services personnel. The course emphasizes the use of indirect service delivery and collaborative consultation models with educators and parents.

Requisites

Simple Requirements

Prerequisite: COUN 6362.

PSY7200 - Adv Educational Psychology

General

College/School
Education and Human Sciences

Course Title
Adv Educational Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Recent research in educational psychology and its application for teaching and for educational services in schools and colleges.

PSY7300 - Special Topics

General

College/School
Education and Human Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Concentration on a special topic in educational psychology. Course maybe repeated if topic is different.

PSY7310 - Adv Educational Statistics

General

College/School
Education and Human Sciences

Course Title
Adv Educational Statistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
PSY

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: FOED 6920 and PSY 6310 or consent of instructor. Review of introductory significance tests and correlational methods; common factorial designs; and common multivariate procedures.

PSY7610 - Intro/Personality Assessment

General

College/School
Education and Human Sciences

Course Title
Intro/Personality Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 4250 (5250) and advanced graduate standing. Psychological evaluation; self-report inventories; and introduction to projective techniques.

Requisites

Simple Requirements

Prerequisite: PSY 4250 (5250) and advanced graduate standing.

PSY7730 - Individual Testing

General

College/School
Education and Human Sciences

Course Title
Individual Testing

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 4250 (5250), six credits in psychological and/or educational measurement, and permission of instructor. Techniques and practice in individual testing; emphasis on intelligence tests.

Requisites

Simple Requirements

Prerequisite: PSY 4250 (5250), six credits in psychological and/or educational measurement, and permission of instructor.

PSY7800 - Practicum in School Psychology

General

College/School
Education and Human Sciences

Course Title
Practicum in School Psychology

Academic Level (Course Level)
Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
PSY 7800 is an Ed.S.-level practicum that provides a structured, supervised field experience designed to prepare candidates for Internship I and II in School Psychology.

Requisites

Simple Requirements

Credit completion

Type
Completion Requirement

Additional Comments:
Must have completed at least 18 hours in EdS program.

PSY7900 - Ind Study/Edu Psychology

General

College/School
Education and Human Sciences

Course Title
Ind Study/Edu Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Advanced graduate standing and consent of instructor. Study on an individual basis in the area of emphasis.

PSY7910 - Assessment and Intervention

General

College/School
Education and Human Sciences

Course Title
Assessment and Intervention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7910

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 7730 and consent of instructor. Review of psychometric theory; role of the school psychologist; individual and group assessment of cognitive, affective, motor, and academic performance; basic interventions; consultations.

Requisites

Simple Requirements

Prerequisite: PSY 7730 and consent of instructor.

PSY7920 - Assessment and Intervention

General

College/School
Education and Human Sciences

Course Title
Assessment and Intervention

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: PSY 7610. Individual assessment of neuropsychological functioning; advanced personality assessment of children and adolescents; advanced interventions; consultations.

Requisites

Simple Requirements

Prerequisite: PSY 7610.

PSY7950 - Internship/School Psychology

General

College/School
Education and Human Sciences

Course Title
Internship/School Psychology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
PSY

Course Number
7950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: PSY 7920 and consent of instructor. A planned developmental experience in a school setting supervised by a licensed or certified psychologist. May be repeated for credit.

Requisites

Simple Requirements

Prerequisite: PSY 7920.

READ5411 - Read/Write Connect:Secondary

General

College/School
Education and Human Sciences

Course Title
Read/Write Connect:Secondary

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
5411

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to Teacher Education. Explores the connection between the reading and writing process as a means of mutual improvement. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Full admission to Teacher Education.

Corequisite: READ 3350.

READ5570 - Young Adult Literature

General

College/School
Education and Human Sciences

Course Title
Young Adult Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
5570

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A survey of young adult literature appropriate for middle and high school students with a focus on contemporary and diverse works.. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

READ6100 - Uses of Tech in Literacy Edu

General

College/School
Education and Human Sciences

Course Title
Uses of Tech in Literacy Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of technological applications in literacy instruction; emphasis on computer uses in reading and language arts instruction.

READ6200 - Foundations of Literacy

General

College/School
Education and Human Sciences

Course Title
Foundations of Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6200

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Lecture Hours

Lecture Hours
Min:
6

Course Description
Prerequisite: Full admission to the Teacher Education Program. This course is an integration of concepts fundamental to the development, instruction, and assessment of literacy in the elementary grades. It integrates theory, children's literature, language development and communication skills, language arts, and the assessment and selection of appropriate instructional strategies based upon student need. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

READ6310 - Asmnt/Intervention-Literacy

General

College/School
Education and Human Sciences

Course Title
Asmnt/Intervention-Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6310

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: READ 6340 and READ 6350. Nature and causes of literacy difficulties. Diagnostic and remedial procedures. Supervised practice in testing and remedial teaching

Requisites

Simple Requirements

Prerequisites: Full admission to the Teacher Education Program; READ 6310, READ 6340, and READ 6350

READ6340 - Literacy in Elementary School

General

College/School
Education and Human Sciences

Course Title
Literacy in Elementary School

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Developmental reading skills, instructional procedures, materials, and evaluation.

READ6350 - Literacy in Secondary School

General

College/School
Education and Human Sciences

Course Title
Literacy in Secondary School

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6350

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced reading skills, content area reading skills, organization and supervision of secondary reading programs.

READ6360 - Literacy for Exceptional Learners

General

College/School
Education and Human Sciences

Course Title
Literacy/Exceptional Learners

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6360

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Introduces foundational literacy skills and the five major components of reading. Emphasis is placed on early language development, explicit, systematic, multi-sensory, and research aligned instruction and assessment of foundational literacy skills. Addresses factors associated with both typical and atypical acquisition and development of literacy from birth through high school. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

READ6600 - Lit Across the Curriculum

General

College/School
Education and Human Sciences

Course Title
Lit Across the Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6600

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Uses of literature in English/language arts, science, social studies, math, and other curricular areas. Equal emphasis on enhancement of content areas and integration across content areas.

Requisites

No Requirements

READ6625 - Advanced Literacy Methods

General

College/School
Education and Human Sciences

Course Title
Advanced Literacy Methods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
6625

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 6200. Examines evidence-based literacy instruction for upper elementary learners through the Science of Reading. Topics include multisyllabic word reading, morphology, vocabulary, comprehension, writing, and analysis of student literacy data. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Minimum Grade Requirement

Type
Completion Requirement

Earn a minimum Letter Grade of B or Better
A minimum grade of B is required to meet degree requirements for licensure candidates.

Prerequisite

Type
Prerequisite

Full admission to the Teacher Education Program.

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- READ6200 - Foundations of Literacy

READ6700 - Literacy Contexts: Intersections in Practice

General

College/School
Education and Human Sciences

Course Title
Lit Contx:Intersections/Pract

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6700

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examines the instructional needs of a range of English speakers, including linguistic varieties (e.g., regional and nonstandard dialects) and English Language Learners, and the interconnections that shape literacy practices. Focuses on pedagogy and methodology and integrates children's and young adult literature to support student learning.

Requisites

Simple Requirements

Untitled Requirement

Type
Completion Requirement

READ6800 - Practicum Exp in Literacy

General

College/School
Education and Human Sciences

Course Title
Practicum Exp in Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 6340 and READ 6350. Practical field experience in student's major area of emphasis. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program; READ 6340 and READ 6350.

READ6920 - Topics In Reading

General

College/School
Education and Human Sciences

Course Title
Topics In Reading

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6920

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
6

Course Description
Independent study of reading-related issues

READ6990 - Thesis

General

College/School
Education and Human Sciences

Course Title
Thesis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
6990

Credit Hours

Credit Hours Min :
6

Contact Hours

Contact Hours Min :
6

Billing Hours

Billing Hours Min :
6

READ7310 - Assessment & Intervention in Literacy

General

College/School
Education and Human Sciences

Course Title
Assmnt & Intervention/Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
7310

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: READ 7340 and READ 7350. Nature and causes of literacy difficulties; diagnostic and remedial procedures; supervised practice in testing and remedial teaching, with emphasis on critical analysis and application of assessment and intervention practices.

Requisites

Simple Requirements

Prerequisite

Type
Prerequisite

Complete ALL of the following Courses:
- READ7340 - Literacy in the Elementary School
- READ7350 - Literacy in the Secondary School

READ7340 - Literacy in the Elementary School

General

College/School
Education and Human Sciences

Course Title
Literacy in the Elem School

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
7340

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Evidence-based literacy instruction, assessment, and intervention in elementary grades.

Requisites

No Requirements

READ7350 - Literacy in the Secondary School

General

College/School
Education and Human Sciences

Course Title
Literacy/Secondary School

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
7350

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Advanced reading skills, content area reading skills, and the organization and supervision of secondary reading programs, with emphasis on critical analysis and application of research-based practices.

Requisites

No Requirements

READ7370 - Ling:Theory-App for Educators

General

College/School
Education and Human Sciences

Course Title
Ling:Theory-App for Educators

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
READ

Course Number
7370

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Explores language structures (semantics, syntax, morphology, and phonology) and first and second language acquisition and development.

READ7500 - Leadership in Literacy Edu

General

College/School
Education and Human Sciences

Course Title
Leadership in Literacy Edu

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
7500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 6310, READ 6340, and READ 6350. This course explores the roles of the literacy specialist and coach, and, in particular, their positions as school leaders in the field of literacy. Leadership skills related to literacy program design, evaluation, and supervision are emphasized as well as a focus on advocacy, reflection, research, policy, and practice. Practicum embedded into course. A minimum grade of B is required to meet requirements for licensure candidates.

READ7800 - Practicum Experiences/Literacy

General

College/School
Education and Human Sciences

Course Title
Practicum Experiences/Literacy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
READ

Course Number
7800

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 6340 and READ 6350. Practical field experience in student's major area of emphasis. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisites: Full admission to the Teacher Education Program; READ 6340 and READ 6350.

SA5110 - Magellan Exchange Program

General

College/School
Independent Programs

Course Title
Magellan Exchange Program

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SA

Course Number
5110

Credit Hours

Credit Hours
Min :
0

Contact Hours

Contact Hours
Min :
0

Billing Hours

Billing Hours
Min :
0

Course Description
Magellan Exchange Program

Requisites

SEED5120 - Mtrls/Meth-Tch English

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch English

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program; READ 4411 (5411); and SPCH 2410. Corequisite: FOED 3820. Prerequisite or Corequisites: READ 3350 and any two of the following: ENGL 3810, ENGL 3820, ENGL 3910, or ENGL 3920. Principles, objectives, techniques, and evaluation in secondary school teaching of English. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

No Requirements

SEED5121 - Mtrls/Meth-Tch Career Tech Ed

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch Career Tech Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5121

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles, objectives, techniques, evaluation in secondary school teaching of occupational education. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

SEED5122 - Mtrls/Meth-Tch Math

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch Math

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5122

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. Principles, objectives, techniques, and evaluation in secondary school teaching of mathematics. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Corequisite: FOED 3820.

SEED5123 - Mtrls/Meth-Tch Sciences

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch Sciences

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5123

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820 Principles, objectives, techniques, and evaluation in secondary school teaching of the sciences. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Corequisite: CUED 6800

SEED5124 - Mtrls/Meth-Tch Soc Studies

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch Soc Studies

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5124

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3820. Principles, objectives, techniques, and evaluation in secondary school teaching of social studies. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Corequisite: CUED 6800

SEED5125 - Materials/Methods: Teaching Foreign Language

General

College/School
Education and Human Sciences

Course Title
Mtrls/Meth-Tch Foreign Lang

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5125

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Corequisite: FOED 3800 or CUED 6800. Principles, objectives, techniques, and evaluation in secondary school teaching of foreign languages. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

Corequisite: CUED 6800

SEED5322 - Teaching Algebra in Middle/HS

General

College/School
Education and Human Sciences

Course Title
Teaching Algebra in Middle/HS

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5322

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Topics in Algebra, philosophy, new trends, and methods of teaching algebra in Grades 5-12. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

SEED5422 - Teach Sec Math Using Techn

General

College/School
Education and Human Sciences

Course Title
Teach Sec Math Using Techn

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
5422

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Exploring technologies specific to mathematics teaching and appropriate applications of these technologies in the classroom. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

SEED6210 - Secondary School Prog

General

College/School
Education and Human Sciences

Course Title
Secondary School Prog

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SEED

Course Number
6210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A study of curricular and instructional issues in various secondary school content areas as they relate to high school programs.

SOC5010 - Organized Crime

General

College/School
Arts and Sciences

Course Title
Organized Crime

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: Sophomore Standing and SOC1010 or CJ2660 or SOC2660.

SOC5040 - Law and Culture

General

College/School
Arts and Sciences

Course Title
Law and Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

SOC5080 - Sociology of Appalachia

General

College/School
Arts and Sciences

Course Title
Sociology of Appalachia

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5080

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An exploration of the people, culture, and political economy of Appalachia. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5090 - Cross Cult Comm/Cult Diversity

General

College/School
Arts and Sciences

Course Title
Cross Cult Comm/Cult Diversity

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5090

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An examination of the socio-cultural context of communication with emphasis upon enhancing communication skills across cultures. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: None

SOC5120 - Death & Dying

General

College/School
Arts and Sciences

Course Title
Death & Dying

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

SOC5130 - Death and Dying

General

College/School
Arts and Sciences

Course Title
Death and Dying

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

SOC5210 - Race/Ethnicity/Multicultural

General

College/School
Arts and Sciences

Course Title
Race/Ethnicity/Multicultural

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5210

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

SOC5220 - Sociology of Mass Comm

General

College/School
Arts and Sciences

Course Title
Sociology of Mass Comm

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

SOC5320 - Sociology of Religion

General

College/School
Arts and Sciences

Course Title
Sociology of Religion

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SOC1010 or SOC1100 or consent of instructor.

SOC5330 - Population & Social Proc

General

College/School
Arts and Sciences

Course Title
Population & Social Proc

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5330

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sociological analysis of the interrelationship between particular population characteristics and patterns of social organization. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5430 - People in Organizations

General

College/School
Arts and Sciences

Course Title
People in Organizations

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5430

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of the structures and processes of large bureaucratic organizations, with emphasis on individuals' relationships to them. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5500 - Soc-Alcohol Abuse/Alcoholism

General

College/School
Arts and Sciences

Course Title
Soc-Alcohol Abuse/Alcoholism

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Sociological analysis of alcohol abuse and alcoholism; issues in prevention and rehabilitation; implications for education. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5510 - Social Deviance

General

College/School
Arts and Sciences

Course Title
Social Deviance

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5510

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of various groups who are identified as deviant due to their unacceptable behavior and relative powerlessness. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5610 - Contemporary Am Family

General

College/School
Arts and Sciences

Course Title
Contemporary Am Family

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5610

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Models of family organization; variations in the institutional pattern; kinship; basic social trends affecting the family. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5660 - Corrections

General

College/School
Arts and Sciences

Course Title
Corrections

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5660

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Correctional services, practices and issues with particular attention to the maximum security adult institution. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or CJ2660 Criminology or SOC2660 Criminology or SW1800 Intro to Social Work or consent of instructor

SOC5810 - Concepts of Gerontology

General

College/School
Arts and Sciences

Course Title
Concepts of Gerontology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5810

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

SOC5830 - Medical Anthropology

General

College/School
Arts and Sciences

Course Title
Medical Anthropology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5830

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Examination of the significance of the complex relationship between attitudes, beliefs relating to the underlying causes of disease, the level of health characteristics, appropriate treatment practices and the role of the healer in various groups and societies. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5860 - Social Movement/Social Change

General

College/School
Arts and Sciences

Course Title
Social Movement/Social Change

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5860

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Analysis of social movements and other kinds of planned and unplanned change in society. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC1010 Intro to Sociology or SOC1100 Intro to Anthropology or consent of instructor.

SOC5900 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

Requisites

SOC5915 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5915

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

Requisites

Simple Requirements

Prerequisite: Nine hours of sociology.

SOC5920 - Data Analysis & Mgmt

General

College/School
Arts and Sciences

Course Title
Data Analysis & Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5920

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The techniques of management and analysis of quantitative social science data from primary and secondary sources. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC3910 Soc Science Stat Analysis

SOC5925 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5925

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Nine hour internships are only available for internships that offer special opportunities that are not available in a 3 or 6 hour internship. The great majority of these will be summer internships that require the intern to work a 40 hour week. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 9 hours of credit.

Requisites

Simple Requirements

Prerequisite: Nine hours of sociology.

SOC5930 - Field Research Methods

General

College/School
Arts and Sciences

Course Title
Field Research Methods

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5930

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An in-depth examination and direct involvement with various qualitative research tools and techniques used by sociologists. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SOC2900 Intro-Sociological Research or consent of instructor or SOC3900 Intro-Sociological Research

SOC5940 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5940

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5941 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5941

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5948 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5948

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5949 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5949

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5950 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. May be taken twice, provided that the topic is different. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5951 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5951

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

SOC5970 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5970

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
1

Lecture Hours
Max:
3

Course Description
Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SOC5980 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5980

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

SOC5990 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
5990

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
Prerequisite: Consent of instructor. Seminar or lecture course on a selected topic, issue, or interest area in sociology. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

SOC6100 - Interdisc Cultural Training

General

College/School
Arts and Sciences

Course Title
Interdisc Cultural Training

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SOC

Course Number
6100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

This will be an active learning course focused on sociology, history, cultures, economics, and language of the Cherokee Nation and Appalachia. It will explore effective strategies to collaboratively solve complex food-energy-water challenges from a culturally responsive perspective.

Requisites

Simple Requirements

Prerequisite: None

SPAN5010 - Intro to Literature of Spain

General

College/School
Arts and Sciences

Course Title
Intro to Literature of Spain

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Selections from the literature of Spain. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SPAN 3010 or equivalent.

SPAN5020 - Intro/Lit of Spanish America

General

College/School
Arts and Sciences

Course Title
Intro/Lit of Spanish America

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Selections from the literature of Spanish America. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SPAN 3010 or equivalent.

SPAN5030 - Adv Spanish Conversation

General

College/School
Arts and Sciences

Course Title
Adv Spanish Conversation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
5030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: SPAN 3020

SPAN5110 - Culture/Civilization of Spain

General

College/School
Arts and Sciences

Course Title
Culture/Civilization of Spain

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Lectures, readings, and discussion in Spanish on the culture and civilization of Spain. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SPAN 3010 or equivalent.

SPAN5120 - Culture/Civ of Spanish Amer

General

College/School
Arts and Sciences

Course Title
Culture/Civ of Spanish Amer

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Lectures, readings, and discussion in Spanish on the culture and civilization of Spanish America. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SPAN 3010 or equivalent.

SPAN6010 - Special Topics

General

College/School
Arts and Sciences

Course Title
Special Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPAN

Course Number
6010

Credit Hours

Credit Hours
Min :
1

Credit Hours
Max :
16

Contact Hours

Contact Hours
Min :
1

Contact Hours
Max :
16

Billing Hours

Billing Hours
Min :
1

Billing Hours
Max :
16

Course Description
Concentrated readings in areas of special interest. Available to graduate students minoring in Spanish, with consent of departmental chairperson. (Maximum of 12 credits.)

Requisites

Simple Requirements

Prerequisite: None.

SPCH5000 - Intro/Communcation Disorders

General

College/School
Emerging and Integrative Studies

Course Title
Intro/Communcation Disorders

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Principles of and therapeutic approaches to speech, language, and hearing disorders. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

SPCH5150 - Spch & Lang Acquisition-Dev

General

College/School
Emerging and Integrative Studies

Course Title
Spch & Lang Acquisition-Dev

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5150

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Normal speech/language development, anatomy of speech structures, distinctive features and implications of process and analysis systems. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

SPCH5410 - Organizational Communication

General

College/School
Arts and Sciences

Course Title
Organizational Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5410

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Graduate-level status or by permission of the instructor. An exploration of communication principles operant in modern organizations and approaches to the understanding of communicative culture in these organizations.

Requisites

SPCH5601 - Spec Top:Speech Communication

General

College/School
Arts and Sciences

Course Title
Spec Top:Speech Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5601

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
1

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Graduate-level status. May be repeated to a maximum of 9 hours with change in course content. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Requisites

SPCH5602 - Spec Top:Speech Communication

General

College/School
Arts and Sciences

Course Title
Spec Top:Speech Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5602

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Graduate-level status. May be repeated to a maximum of 9 hours with change in course content. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Requisites

SPCH5603 - Spec Top:Speech Communication

General

College/School
Arts and Sciences

Course Title
Spec Top:Speech Communication

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPCH

Course Number
5603

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisites: Graduate-level status. May be repeated to a maximum of 9 hours with change in course content. Presentation of directed, individual research in selected topics in speech communication beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Requisites

SPED5130 - Meth/Tch Per W M/M Disa

General

College/School
Education and Human Sciences

Course Title
Meth/Tch Per W M/M Disa

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
5130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: SPED 4320 or 6320. Designed to empower the preservice special educator with skills necessary to implement an integrated curriculum in a variety of placements. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: SPED 4320 or SPED 5320 or SPED 6320 and admission to the Teacher Education Program.

SPED5200 - Tch Stu w/ Autism Spect Disord

General

College/School
Education and Human Sciences

Course Title
Tch Stu w/ Autism Spect Disord

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
5200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Within the context of persons with ASD, this course is designed to provide the student with a model of the teaching process progressing from identification, to instructional design, to the use of research-validated methods for instructional delivery and the provision of needed educational, social, academic, and behavioral supports. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus. A minimum grade of B is required to meet requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

SPED5340 - Systematic Instr-Disability

General

College/School
Education and Human Sciences

Course Title
Systematic Instr-Disability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
5340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: SPED 6010 and SPED 6320; Full admission to the Teacher Education Program. Examination of assessment procedures, effective and efficient instructional approaches for achievement of learning mastery and proficiency.

Requisites

Simple Requirements

Prerequisites: SPED 6010 and SPED 6320 and SPED 4030 and full admission to the second level

SPED6000 - Behav Interven & Supports

General

College/School
Education and Human Sciences

Course Title
Behav Interven & Supports

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6000

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
The design, implementation, and evaluation of behavioral interventions and individualized behavioral supports for children and youth with disabilities who display challenging behavior.

SPED6010 - Surv-Disab Char,Proc,Meth/ SPED

General

College/School
Education and Human Sciences

Course Title
Surv-Disab Char,Proc,Meth/SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6010

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
A survey of the characteristics and educational needs of persons with disabilities; educational methods and procedures.

SPED6020 - Intellectual Disability

General

College/School
Education and Human Sciences

Course Title
Intellectual Disability

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: SPED 6010. An introduction to the diagnosis, characteristics, interventions, and best practices for working with individuals with intellectual disabilities.

Requisites

Simple Requirements

Prerequisite: SPED 6010.

SPED6030 - Learning Disabilities

General

College/School
Education and Human Sciences

Course Title
Learning Disabilities

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6030

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: SPED 6010. A detailed overview of historical and contemporary concepts and practices concerning children with specific learning disabilities.

Requisites

Simple Requirements

Prerequisite: SPED 6010.

SPED6040 - Classrm Applications using ABA

General

College/School
Education and Human Sciences

Course Title
Classrm Applications using ABA

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6040

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: SPED 6010 or consent of instructor. Classroom applications focusing on an analysis of theories, identification, diagnosis, treatment, and education of children and youth with emotional behavior disorders.

Requisites

Simple Requirements

Prerequisite: SPED 6010 or consent of instructor.

SPED6050 - Intro/Applied Behavior Analysi

General

College/School
Education and Human Sciences

Course Title
Intro/Applied Behavior Analysi

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6050

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
An introduction to the application of applied behavior analysis including the theoretical origins and development of behavioral supports for individuals with learning and behavioral challenges.

SPED6060 - Ed-Orth & Motor Impaired

General

College/School
Education and Human Sciences

Course Title
Ed-Orth & Motor Impaired

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6060

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: SPED 6010. Research and program intervention in learning abilities of individuals with orthopedic and neurologic limitations and other health-related programs.

Requisites

Simple Requirements

Prerequisite: SPED 6010.

SPED6070 - Indiv. Educational Planning

General

College/School
Education and Human Sciences

Course Title
Indiv. Educational Planning

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6070

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: Full admission to the Teacher Education Program. Develop knowledge of core components of individualized education plans and formal lesson plans and the skills needed to thoughtfully create these plans. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education Program.

SPED6120 - Erly Chldhd SPED Assessment

General

College/School
Education and Human Sciences

Course Title
Erly Chldhd SPED Assessment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Assessment, planning, and intervention procedures specific to child, environment, and family. Design and evaluation of intervention plans.

Requisites

Simple Requirements

Prerequisite: None

SPED6320 - Assess Persons w/ Disab

General

College/School
Education and Human Sciences

Course Title
Assess Persons w/ Disab

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6320

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: SPED 6010; Full admission to the Teacher Education Program. Provides the student with knowledge and skills in the administration and interpretation of educational assessment instruments used in the evaluation of persons with disabilities. A minimum grade of B is required to meet licensure requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: SPED 6010; Full admission to the Teacher Education Program.

SPED6920 - Topics in Special Education

General

College/School
Education and Human Sciences

Course Title
Topics in Special Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
6920

Credit Hours

Credit Hours Min :
1

Credit Hours Max :
6

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
6

Billing Hours

Billing Hours Min :
1

Billing Hours Max :
6

Course Description
Laboratory approach providing opportunities for experienced educational personnel to study in-depth special education problems of persons with disabilities.

SPED7110 - Family Collaboration in SPED

General

College/School
Education and Human Sciences

Course Title
Family Collaboration in SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
7110

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Concepts, intervention strategies, and issues related to working with parents of exceptional children.

SPED7130 - Meth/Tchg Prs w Mild/Mod Dis

General

College/School
Education and Human Sciences

Course Title
Meth/Tchg Prs w Mild/Mod Dis

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
7130

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisites: Full admission to the Teacher Education Program; SPED 6030 and SPED 6070. Designed to empower the candidate with skills necessary to implement an integrated curriculum in a variety of placements. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisites: Full admission to the Teacher Education Program; SPED 6030 and SPED 6070.

SPED7200 - Tchg Indiv/Autism Spec Disorde

General

College/School
Education and Human Sciences

Course Title
Tchg Indiv/Autism Spec Disorde

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
7200

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Full admission to the Teacher Education program. Provides information about the characteristics of and strategies needed to work with individuals with a diagnosis of autism. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisite: Full admission to the Teacher Education program.

SPED7340 - Sys Instr/Prs w Comp Disabl

General

College/School
Education and Human Sciences

Course Title
Sys Instr/Prs w Comp Disabl

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SPED

Course Number
7340

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Prerequisite: Full admission to the Teacher Education Program; SPED 6020 and SPED 6070. Assessment procedures, effective and efficient instructional approaches for achievement for individuals with moderate to severe disabilities. A minimum grade of B is required to meet degree requirements for licensure candidates.

Requisites

Simple Requirements

Prerequisites: Full admission to the Teacher Education Program; SPED 6020 and SPED 6070.

SVCL5150 - Topics

General

College/School
Education and Human Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SVCL

Course Number
5150

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
9

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
9

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
9

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
9

Course Description

This course will coordinate and supervise service learning opportunities for students. The specific service learning activity will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face service learning effort. Course objectives and grading guidelines will be established by the faculty at the time each course is offered. Students in the 5000-level course will be required to complete additional coursework as stated in the syllabus.

SVCL5920 - Service Learning in Community

General

College/School
Education and Human Sciences

Course Title
Service Learning in Community

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SVCL

Course Number
5920

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Course Description

This course provides students with the opportunity to use their professional skills to better their community through service learning. this course may be repeated for credit. Students in the 5000-level course will be required to complete additional work as stated in the syllabus.

SVCL6150 - Topics

General

College/School
Education and Human Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
SVCL

Course Number
6150

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
9

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Course Description

This course will coordinate and supervise service learning opportunities for students. The specific service learning activity will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face service learning effort. Course objectives and grading guidelines will be established by the faculty at the time each course is offered. Students in the 7000-level course will be required to complete additional coursework as stated in the syllabus.

SVCL6920 - Service Learning in Community

General

College/School
Education and Human Sciences

Course Title
Service Learning in Community

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
SVCL

Course Number
6920

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description

This course provides students with the opportunity to use their professional skills to better their community through service learning. this course may be repeated for credit. Students in the 7000-level course will be required to complete additional work as stated in the syllabus.

SVCL7150 - Topics

General

College/School
Education and Human Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
SVCL

Course Number
7150

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
9

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
9

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
9

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
9

Course Description

This course will coordinate and supervise service learning opportunities for students. The specific service learning activity will be designated in the title at each offering. The number of hours of credit will be based on the magnitude of the topic and the clock hours of face-to-face service learning effort. Course objectives and grading guidelines will be established by the faculty at the time each course is offered. Students in the 7000-level course will be required to complete additional coursework as stated in the syllabus.

SVCL7920 - Service Learning in Community

General

College/School
Education and Human Sciences

Course Title
Service Learning in Community

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
SVCL

Course Number
7920

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
1

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
1

Lecture Hours Max:
3

Course Description
This course provides students with the opportunity to use their professional skills to better their community through service learning. this course may be repeated for credit. Students in the 7000-level course will be required to complete additional work as stated in the syllabus.

SW5005 - Rural Social Work

General

College/School
Arts and Sciences

Course Title
Rural Social Work

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
SW

Course Number
5005

Credit Hours

Credit Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
This course examines the unique challenges and opportunities of social work practice in rural communities. Students will explore the demographic, economic, cultural, and geographic factors that shape service delivery and client experiences in rural contexts. Emphasis is placed on the strengths and resilience of rural populations, the impact of limited resources and social services, and the importance of collaboration, innovation, and advocacy in addressing community needs. Topics include health disparities, poverty, substance use, mental health access, ethical dilemmas in small communities, and the role of social workers as generalist practitioners. Students will analyze policies affecting rural areas, evaluate strategies for community engagement and capacity building, and develop culturally responsive and contextually appropriate approaches to practice. Through case studies, applied projects, and reflective learning, students will strengthen competencies for advancing equity and social justice in rural settings.

Requisites

Simple Requirements

Admission to MSW Program

Type
Prerequisite

SW5010 - School Social Work

General

College/School
Arts and Sciences

Course Title
School Social Work

Academic Level (Course Level)
Graduate

Course Subject Code
SW

Course Number
5010

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides an overview of social work practice in K–12 educational settings, with a focus on promoting the academic, social, and emotional well-being of children and adolescents. Students will examine the historical and contemporary role of school social workers, relevant laws and policies, and the ways schools intersect with families and communities. Emphasis is placed on assessment, prevention, intervention, and advocacy strategies that address issues such as poverty, trauma, bullying, absenteeism, behavioral challenges, and special education needs. Students will learn to collaborate with teachers, administrators, families, and community partners to foster safe, inclusive, and supportive learning environments. Attention is given to cultural humility, ethical decision-making, and the advancement of equity and social justice in schools. Through case studies, applied projects, and experiential learning, students will strengthen their ability to deliver effective services and advocate for systemic change within educational systems.

Requisites

Simple Requirements

Prerequisite: Admission to the Master of Social Work program.

SW5015 - Medical Social Work

General

College/School
Arts and Sciences

Course Title
Medical Social Work

Academic Level (Course Level)
Graduate

Course Subject Code
SW

Course Number
5015

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines the role of social workers in healthcare settings, focusing on the integration of psychosocial care with medical treatment. Students will explore the impact of illness, disability, and health disparities on individuals and families, and learn to provide assessment, intervention, and advocacy within interdisciplinary healthcare teams. Emphasis is placed on culturally responsive and trauma-informed practice, ethical decision-making, and addressing barriers to care such as poverty, stigma, and systemic inequities. Topics include chronic illness, end-of-life care, mental health in medical settings, patient and family support, and healthcare policy and reform. Through case studies, role plays, and applied assignments, students will develop competencies in patient advocacy, care coordination, crisis intervention, and linking clients with community resources. The course prepares students to practice effectively in hospitals, clinics, long-term care facilities, and other health-related environments.

Requisites

Simple Requirements

Admission to MSW Program

Type
Prerequisite

SW5020 - Forensic Social Work

General

College/School
Arts and Sciences

Course Title
Forensic Social Work

Academic Level (Course Level)
Graduate

Course Subject Code
SW

Course Number
5020

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course explores the intersection of social work and the legal system, preparing students for practice in forensic settings. Students will examine the roles of social workers in criminal justice, child welfare, mental health courts, corrections, and related environments where legal and clinical issues converge. Emphasis is placed on assessment, intervention, case management, and expert testimony in cases involving abuse, neglect, trauma, substance use, and violence. Students will also study relevant laws, ethical dilemmas, and the impact of systemic inequality, racism, and oppression within legal systems. The course highlights evidence-based and trauma-informed practices that promote rehabilitation, human rights, and restorative justice. Through case studies, applied exercises, and critical analysis, students will develop competencies in working with justice-involved individuals, families, and communities, while advocating for equitable and humane policies.

Requisites

Simple Requirements

Admission to MSW Program

Type
Prerequisite

SW5025 - Social Work with Children and Youth

General

College/School
Arts and Sciences

Course Title
Social Work with Children

Academic Level (Course Level)
Graduate

Course Subject Code
SW

Course Number
5025

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course examines theories, practices, and policies relevant to social work with children and adolescents in diverse settings. Students will explore developmental, ecological, and trauma-informed perspectives to understand the unique needs and strengths of young people. Emphasis is placed on assessment, engagement, and intervention strategies that promote safety, resilience, and well-being across contexts such as child welfare, schools, juvenile justice, and community-based programs. Students will learn to apply evidence-based models, address issues of poverty, abuse, neglect, mental health, and systemic oppression, and collaborate effectively with families, caregivers, and interdisciplinary teams. The course also highlights the importance of advocacy and policy practice to improve outcomes for children and youth. Through case studies, applied projects, and reflective practice, students will strengthen their competencies in direct practice and systemic intervention with young populations.

Requisites

Simple Requirements

Prerequisite: Admission to the Master of Social Work Program.

SW5100 - Probation and Parole

General

College/School
Arts and Sciences

Course Title
Probation and Parole

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisites: Sophomore Standing and SOC1010 or CJ2660 or SOC2660 or SW1800.

SW5110 - Poverty, Inequality, and Social Justice

General

College/School
Arts and Sciences

Course Title
Poverty, Inequality, & Soc Jus

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
SW

Course Number
5110

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course critically examines the structural, economic, and social dimensions of poverty and inequality in the United States and globally, with a focus on their implications for social work practice. Students will explore historical and contemporary theories of poverty, the role of social policy, and the intersections of race, class, gender, and other identities in shaping experiences of disadvantage. Emphasis will be placed on analyzing systemic barriers, understanding the lived realities of marginalized populations, and evaluating policy and practice interventions designed to promote equity and social justice. Through readings, case studies, and applied projects, students will strengthen their capacity to advocate for social change, advance human rights, and engage in practice that challenges oppression and fosters inclusion.

Requisites

Simple Requirements

Prerequisite: Admission to MSW Program

SW5120 - Case Management

General

College/School
Arts and Sciences

Course Title
Case Management

Academic Level (Course Level)
Undergraduate

Course Subject Code
SW

Course Number
5120

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

SW5175 - Introduction to Social Welfare Policy

General

College/School
Arts and Sciences

Course Title
Intro to Social Welfare Policy

Academic Level (Course Level)
Graduate, Undergraduate

Course Subject Code
SW

Course Number
5175

Credit Hours

Credit Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
This course provides a foundational overview of social welfare policy in the United States, with attention to its historical development, philosophical underpinnings, and impact on diverse populations. Students will examine the values, political ideologies, and economic
forces that shape social policy, as well as the role of government, advocacy groups, and social movements in influencing policy outcomes. Emphasis is placed on understanding how social welfare policies address issues such as poverty, inequality, health, housing, and child welfare, and how these policies intersect with race, class, gender, and other dimensions of identity. Students will learn to critically analyze policies using frameworks that assess effectiveness, equity, and social justice, and will develop skills to advocate for policy reforms that advance human rights and improve the well-being of vulnerable and marginalized populations.

Requisites

Simple Requirements

Admission to MSW Program

Type
Prerequisite

SW5900 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5900

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Prerequisite: Nine hours of sociology. See instructor prior to enrolling. Students are placed with and work in a public or private agency which is compatible with their interests. (Students may take a maximum of two internships for up to a total of 6 hours of Internship. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements with any additional hours counting as upper division general elective hours).

Requisites

SW5915 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5915

Credit Hours

Credit Hours
Min :
6

Contact Hours

Contact Hours
Min :
6

Billing Hours

Billing Hours
Min :
6

Course Description
Six hour internships are only available for internships that offer special opportunities that are not available in a 3 hour internship. See instructor prior to enrolling to determine if an available internship opportunity qualifies for 6 hours of credit.

Requisites

Simple Requirements

Prerequisite: Nine hours of sociology.

SW5925 - Internship

General

College/School
Arts and Sciences

Course Title
Internship

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5925

Credit Hours

Credit Hours
Min :
9

Contact Hours

Contact Hours
Min :
9

Billing Hours

Billing Hours
Min :
9

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None

SW5940 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5940

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SW5941 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5941

Credit Hours

Credit Hours
Min :
1

Contact Hours

Contact Hours
Min :
1

Billing Hours

Billing Hours
Min :
1

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SW5948 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5948

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SW5949 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5949

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Allows the student to undertake study in an area of sociology where there is no appropriate course. Students may take a total of up to 6 hours of Independent Study hours with no more than 3 hours on a single topic. Up to 6 hours may be taken for upper division credit to fulfill major or minor requirements.

Requisites

Simple Requirements

Prerequisite: Consent of instructor.

SW5950 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5950

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Requisites

SW5951 - Independent Study

General

College/School
Arts and Sciences

Course Title
Independent Study

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
SW

Course Number
5951

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Requisites

TEAE5500 - Linguistics

General

College/School
TN eCampus Degree

Course Title
Linguistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6020 - Read, Write, Learn Methods ESL

General

College/School
TN eCampus Degree

Course Title
Read, Write, Learn Methods ESL

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6020

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6260 - Teach ESL w/ Internet Tech

General

College/School
TN eCampus Degree

Course Title
Teach ESL w/ Internet Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6260

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6300 - Multicultural Education

General

College/School
TN eCampus Degree

Course Title
Multicultural Education

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6300

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6437 - Assessment for ESL

General

College/School
TN eCampus Degree

Course Title
Assessment for ESL

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6437

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6500 - Linguistics

General

College/School
TN eCampus Degree

Course Title
Linguistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6501 - Modern English Grammar

General

College/School
TN eCampus Degree

Course Title
Modern English Grammar

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6501

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAE6550 - Latin Am: Countries & Peoples

General

College/School
TN eCampus Degree

Course Title
Latin Am: Countries & Peoples

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAE

Course Number
6550

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAS6001 - Trends/Issue-Excp Learner/ SPED

General

College/School
TN eCampus Degree

Course Title
Trends/Issue-Excp Learner/SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6001

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Requisites

TEAS6003 - Assessment Procedures in SPED

General

College/School
TN eCampus Degree

Course Title
Assessment Procedures in SPED

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate

Course Subject Code
TEAS

Course Number
6003

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAS6004 - Appl Behavior Interven & Supp

General

College/School
TN eCampus Degree

Course Title
Appl Behavior Interven & Supp

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6004

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Requisites

TEAS6005 - Read Methods Across Curriculum

General

College/School
TN eCampus Degree

Course Title
Read Methods Across Curriculum

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6005

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAS6006 - Assisstive Tch/Spec Ed

General

College/School
TN eCampus Degree

Course Title
Assisstive Tch/Spec Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6006

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAS6007 - Math Method Across Curr

General

College/School
TN eCampus Degree

Course Title
Math Method Across Curr

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6007

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TEAS6008 - Sp Meth-Inst, Tch:Mild-Mod

General

College/School
TN eCampus Degree

Course Title
Sp Meth-Inst, Tch:Mild-Mod

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6008

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Requisites

TEAS6009 - Adapted PE Practices

General

College/School
TN eCampus Degree

Course Title
Adapted PE Practices

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6009

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Requisites

TEAS6010 - Methods Instruct/ Teach:Compreh

General

College/School
TN eCampus Degree

Course Title
Methods Instruct/Teach:Compreh

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6010

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Requisites

TEAS6011 - Chrctrstcs/Assmnt-Inf&Todlrs

General

College/School
TN eCampus Degree

Course Title
Chrctrstcs/Assmnt-Inf&Todlrs

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6011

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Requisites

TEAS6012 - Instruction: Early Child/Sp Ed

General

College/School
Regents Online Degree

Course Title
Instruction: Early Child/Sp Ed

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TEAS

Course Number
6012

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Lecture Hours

Lecture Hours
Min:
4

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: None.

TELC6001 - Adolescent Development

General

College/School
TN eCampus Degree

Course Title
Adolescent Development

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6001

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TELC6002 - Assessment and Evaluation

General

College/School
TN eCampus Degree

Course Title
Assessment and Evaluation

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6002

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TELC6003 - Managing Learning Environment

General

College/School
TN eCampus Degree

Course Title
Managing Learning Environment

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6003

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TELC6004 - Survey of Exceptional Children

General

College/School
TN eCampus Degree

Course Title
Survey of Exceptional Children

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6004

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TELC6005 - Teaching and Learning w/Tech

General

College/School
TN eCampus Degree

Course Title
Teaching and Learning w/Tech

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6005

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

TELC6006 - Teachers as Agents of Change

General

College/School
TN eCampus Degree

Course Title
Teachers as Agents of Change

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
TELC

Course Number
6006

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Requisites

THEA5100 - Advanced Acting

General

College/School
Fine Arts

Course Title
Advanced Acting

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
THEA

Course Number
5100

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Prerequisite: THEA 2100. Advanced voice and movement study for the stage with an emphasis on period acting styles; in-depth script and character analysis; advanced scene study. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

THEA5121 - Shakespeare

General

College/School
Fine Arts

Course Title
Shakespeare

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
THEA

Course Number
5121

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Historical, thematic, and other approaches in the study of Shakespeare. (May be repeated once as an elective provided the course content is different.)

Requisites

Simple Requirements

Prerequisite: None

THEA5400 - Dramatic Literature

General

College/School
Fine Arts

Course Title
Dramatic Literature

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
THEA

Course Number
5400

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Study of representative plays drawn from the classical through contemporary periods. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

THEA5500 - Creative Dramatics

General

College/School
Fine Arts

Course Title
Creative Dramatics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
THEA

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Use of an individual's dramatic imagination as a learning and teaching device. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: None

WFS5220 - Biostatistics

General

College/School
Arts and Sciences

Course Title
Biostatistics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5220

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Probability and frequency distribution; statistical populations and samples; and tests of hypotheses used in biological research. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: None.

WFS5230 - Animal Behavior

General

College/School
Arts and Sciences

Course Title
Animal Behavior

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5230

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Introduction to basic principles underlying the behavior of animals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior standing.

WFS5500 - National Wildlife Policy

General

College/School
Arts and Sciences

Course Title
National Wildlife Policy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5500

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Policies, agencies, and laws that influence wildlife management on a national level. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 8 semester hours of biology.

WFS5630 - Ornithology

General

College/School
Arts and Sciences

Course Title
Ornithology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5630

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
0

Contact Hours
Max :
5

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: 8 semester hours of biology. General survey of the class Aves with emphasis on morphology, identification, and ecology of local birds. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5640 - Waterfowl Ecology & Mgmt

General

College/School
Arts and Sciences

Course Title
Waterfowl Ecology & Mgmt

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5640

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Advanced ecological principles as illustrated by ducks, geese, and swans, including habitat selection, morphological and behavioral adaptations, intraspecific and interspecific interactions, and reproductive ecology. Field techniques for identifying species and management approaches are emphasized in the laboratory. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: WFS 3130 and 4720 or consent of instructor.

WFS5650 - Marine Biology

General

College/School
Arts and Sciences

Course Title
Marine Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5650

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
5

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
An introduction to the study of the marine environment and marine organisms. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: 12 semester hours of biology to include BIOL/WFS 3130 or equivalent.

WFS5660 - Wild Bird Ecology

General

College/School
Arts and Sciences

Course Title
Wild Bird Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5660

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
The ecology and natural history of selected avian species, emphasizing game species, endangered species, predators, and pests. Anatomy and procedures for identification are the focus of laboratories. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL 3130 or WFS 3130 or concurrent enrollment

WFS5670 - Wild Mammal Ecology

General

College/School
Arts and Sciences

Course Title
Wild Mammal Ecology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5670

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
2

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
2

Course Description
The natural history and ecology of selected mammal species, emphasizing game species, furbearers, endangered species, predators, and pests. Anatomy and identification are the focus of the laboratories. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: BIOL 1110 and WFS/BIOL 3130, or equivalent.

WFS5700 - Habitat Management

General

College/School
Arts and Sciences

Course Title
Habitat Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5700

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Description, principles, and techniques of quantitative characterization of wildlife habitat types. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: PSS 2450, WFS 4240, or equivalent.

WFS5710 - Fisheries Management

General

College/School
Arts and Sciences

Course Title
Fisheries Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5710

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
0

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Course description not available.

Requisites

Simple Requirements

Prerequisite: BIOL 3130 or WFS 3130.

WFS5711 - Fisheries Management

General

College/School
Arts and Sciences

Course Title
Fisheries Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5711

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description
Classroom-based overview of theory, methods, and techniques of freshwater fisheries management. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: WFS 4810 and WFS 4840 or equivalent, or consent of instructor.

WFS5720 - Wildlife Principles/Techniques

General

College/School
Arts and Sciences

Course Title
Wildlife Principles/Techniques

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5720

Credit Hours

Credit Hours
Min :
0

Credit Hours
Max :
3

Contact Hours

Contact Hours
Min :
2

Contact Hours
Max :
3

Billing Hours

Billing Hours
Min :
0

Billing Hours
Max :
3

Lecture Hours

Lecture Hours
Min:
0

Lecture Hours
Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Prerequisite: 8 semester hours of biology, Junior standing, WFS 4630 and WFS 4820 or equivalent, or consent of instructor. Principles, objectives and techniques of game management. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

WFS5730 - Conservation Biology

General

College/School
Arts and Sciences

Course Title
Conservation Biology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5730

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Lecture Hours

Lecture Hours
Min:
3

Course Description

Advanced concepts of plant and animal conservation, including biodiversity, population genetics, habitat fragmentation, endangered and threatened species, and ecosystem management. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: BIOL3130 General Ecology or WFS3130 General Ecology

WFS5740 - Wildlife Principles

General

College/School
Arts and Sciences

Course Title
Wildlife Principles

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5740

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Lecture Hours

Lecture Hours
Min:
2

Course Description

Classroom-based theory and principles of wildlife management. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: BIOL3130 General Ecology or WFS3130 General Ecology and Junior standing or consent of instructor.

WFS5760 - Fish Culture

General

College/School
Arts and Sciences

Course Title
Fish Culture

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5760

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
4

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
4

Course Description
Classroom-based theory and principles of wildlife management. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisites: BIOL3130 General Ecology or WFS3130 General Ecology and Junior standing or consent of instructor.

WFS5770 - Nongame Species Management

General

College/School
Arts and Sciences

Course Title
Nongame Species Management

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5770

Credit Hours

Credit Hours Min :
3

Contact Hours

Contact Hours Min :
3

Billing Hours

Billing Hours Min :
3

Lecture Hours

Lecture Hours Min:
3

Course Description
Advanced concepts of managing non-game species. Topics include urban wildlife, funding mechanisms, monitoring and inventory techniques, habitat management, rare species, and state wildlife action plans.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5810 - Ichthyology

General

College/School
Arts and Sciences

Course Title
Ichthyology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5810

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
4

Contact Hours

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
4

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
3

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Identification, classification, anatomy, physiology, ecology and adaptations of fishes, with emphasis on North American freshwater species. Students enrolled in the 5000-level course will be required to completely additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior Standing

WFS5820 - Mammalogy

General

College/School
Arts and Sciences

Course Title
Mammalogy

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5820

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Classification, structure and function, phylogeny, and geographical distribution of mammals; emphasis on Tennessee mammals. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5830 - Herpetology

General

College/School
Arts and Sciences

Course Title
Herpetology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5830

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Classification, adaptions, habits, life histories, and geographical distribution of amphibians and reptiles, with emphasis on North American species. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5840 - Limnology

General

College/School
Arts and Sciences

Course Title
Limnology

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5840

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Physiochemical and biological dynamics of inland waters. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5870 - GIS for Wildlife/Fisheries

General

College/School
Arts and Sciences

Course Title
GIS for Wildlife/Fisheries

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5870

Credit Hours

Credit Hours Min :
0

Credit Hours Max :
3

Contact Hours

Contact Hours Min :
2

Contact Hours Max :
3

Billing Hours

Billing Hours Min :
0

Billing Hours Max :
3

Lecture Hours

Lecture Hours Min:
0

Lecture Hours Max:
2

Lab Hours

Lab Hours Min:
0

Lab Hours Max:
3

Course Description
Introduction to Geographic Information Systems (GIS) using both raster and vector spatial data models, with hands on experience utilizing computers to aid problem solving in wildlife and fisheries science.

Requisites

Simple Requirements

Prerequisite: Junior Standing.

WFS5991 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5991

Credit Hours

Credit Hours Min :
1

Contact Hours

Contact Hours Min :
1

Billing Hours

Billing Hours Min :
1

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

WFS5992 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5992

Credit Hours

Credit Hours
Min :
2

Contact Hours

Contact Hours
Min :
2

Billing Hours

Billing Hours
Min :
2

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

WFS5993 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5993

Credit Hours

Credit Hours
Min :
3

Contact Hours

Contact Hours
Min :
3

Billing Hours

Billing Hours
Min :
3

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.

WFS5994 - Topics

General

College/School
Arts and Sciences

Course Title
Topics

Academic Level (Course Level)
Doctoral, Specialist in Education, Graduate, Undergraduate

Course Subject Code
WFS

Course Number
5994

Credit Hours

Credit Hours
Min :
4

Contact Hours

Contact Hours
Min :
4

Billing Hours

Billing Hours
Min :
4

Course Description
Focused study equivalent to one, two, three, or four credit hours on an advanced topic in the life sciences or wildlife/fisheries sciences under faculty supervision and approval of the departmental chairperson. Course may be repeated until a maximum of 12 hours of combined credit in BIOL (WFS) 499- (599-), Advanced Topics courses, are earned.

Requisites

Simple Requirements

Prerequisite: Consent of instructor and departmental chairperson.