University Curriculum Committee
February 9, 2023 Meeting Minutes

The University Curriculum Committee met on **Thursday, February 9** at 3:00 p.m. via Zoom Meeting.

Members Present:

Julie Baker	Darron Smith	Martin Sheehan	Christy Killman
Jennifer Shank	Mike Gotcher	Sharon Huo	Jeremy Wendt, Chair
Linda Null	Jeff Boles	Barbara Jared	Kim Hanna
Brandi Fletcher	Wesley Pech	Brittany Copley	Karen Lykins
Jeff Roberts	Colin Hill	Julie Galloway	Chris Brown
Kent Dollar	Allan Mills	Allen MacKenzie	Steve Frye
Mark Stephens	Kim Winkle	Thomas Payne	Stephanie Kazanas
Lisa Zagumny	Michael Allen	Melinda Anderson	Mohan Rao
Rita Barnes	Marc Hardin, Student	Stephen Robinson	Brenda Wilson

Members Absent:

James Baier	Jerry Gannod	LTC James Bryant	Ben Mohr
Chris Wilson	Jeannette Luna	Fred Vondra	Robby Sanders
Hannah Thomas, Student	Richard Rand	Addison Dorris, Student	Lindsey Taylor, Student
Thomas Timmerman	Steven Sharp		

Official Representative(s):

Clark Carlton FOR	Lori Maxwell	Kumar Yelamarthi FOR	Joseph Slater
Holly Mills FOR	Sharon Holderman		

Guest(s):

Allen Mullis	Mary McCaskey	Angie Clark	Dennis Tennant

Outline of Proceedings:

1.	UCC	Approval of Agenda	10.	PS	Addition of New Courses
2.	UCC	Approval of October 27, 2022 Minutes	11.	HEC	Course Additions/Changes/Deletions
3.	C&I	Curriculum/Catalog Changes	12A.	AG	Prefix Changes
4A.	ECE	Curriculum/Course Changes/Deletions	12B.	AG	Addition of New Course
4B.	ECE	Addition of New Minor	12C.	AG	Addition of New Course
5.	COMM	Addition of New Courses	12D.	AG	Addition of New Course
6.	HIST	Curriculum/Catalog Changes	12E.	AG	Addition of New Course
7A.	MUS	Addition of New Option	12F.	AG	Addition of New Course
7B.	MUS	Course Changes	12G.	AG	Curriculum Changes
8.	BIOL	Course Addition/Changes/Deletions	13.	UCC	UCC Guidelines
9A.	MATH	Curriculum Changes	14.		Other Such Matters
9B.	MATH	Course Description Changes			

Proceedings:

Perceiving a quorum, Dr. Jeremy Wendt, Chair of Committee, called the meeting to order at 3:01pm via Zoom.

1. **Approval of agenda**

    Motion to approve. Julie Baker
    Second. Lisa Zagumny
    Vote. Motion carried.

2. **Approval of minutes, October 27, 2022**
    Motion to approve. Julie Baker
    Second. Lisa Zagumny
    Vote. Motion carried.

3. **Curriculum & Instruction**
    A. **Curriculum/Catalog Changes.**

    1. **Multidisciplinary Studies, Generalist, B.S.**
        A. **Note section #5**
        From:
        5 Select Education Electives from: CUED, ECSP, ELED, ESOL, ESLP, EXPW, FOED, MUED, SEED, SPED or SVCL.

        To:
        5 Select Education Electives from: CUED, ECSP, ELED, ESOL, ESLP, EXPW, FOED, MUED, **PSY,** SEED, SPED or SVCL.

    2. **Multidisciplinary Studies, Middle School English, 6-8 Concentration, B.S.**
        A. **First Semester Junior Year**
            From:
            ENGL 3820. British Literature II (credit 3)
            ENGL 3920. American Literature II (credit 3)

            To:
            ENGL 3820. British Literature II (credit 3) **OR**
            ENGL 3920. American Literature II (credit 3)
            READ 3350. Teaching Reading in the Content Areas (credit 3)

        B. **Second Semester Junior Year**
            From:
            READ 3312. Literacy II-Middle School Reading Program (credit 7)
            READ 3350. Teaching Reading in the Content Areas (credit 3)

            To:
            CUED 4150-Middle Level Curriculum (credit 3)

Elective (credit 1)
ENGL 3820. British Literature II (credit 3) **OR**
ENGL 3920. American Literature II (credit 3)
READ 3314. Literacy for Middle School (credit 3)

3. **Multidisciplinary Studies, Middle School Math, 6-8 Concentration, B.S.**
   A. **Second Semester Sophomore Year**
      From:
      CSED 3010. Programming Fundamentals & Computational Thinking for Educators (credit 3)

      To:
      CSED 3000. Digital Literacy and Computing (credit 3)

   B. **First Semester Junior Year**
      From:
      ESLP 4100(5100). ESL Methodology and Materials for PreK-12 (credit 3)

      To:
      CSED 3010. Programming Fundamentals & Computational Thinking for Educators (credit 3)

   C. **Second Semester Junior Year**
      From:
      READ 3312. Literacy II-Middle School Reading Program (credit 7)

      To:
      Elective (credit 1)
      ESLP 4100(5100). ESL Methodology and Materials for PreK-12 (credit 3)
      READ 3314. Literacy for Middle School (credit 3)

4. **Multidisciplinary Studies, Middle School Science, 6-8 Concentration, B.S.**
   A. **First Semester Sophomore Year**
      From:
      CSED 3010. Programming Fundamentals & Computational Thinking for Educators (credit 3)

      To:
      FOED 3010. Integrating Instructional Technology into the Classroom (credit 3)

   B. **Second Semester Sophomore Year**
      From:
      FOED 3010. Integrating Instructional Technology into the Classroom (credit 3)

      To:

CSED 3000. Digital Literacy and Computing (credit 3)

C. **First Semester Junior Year**
From:
Elective (credit 1)
HEC 3500. Development: Middle Childhood/Adolescence (credit 3) **OR**
PSY 2210. Educational Psychology (credit 3)
Total credit hours: 15

To:
CSED 3010. Programming Fundamentals & Computational Thinking for Educators (credit 3)
Elective (credit 2)
Total credit hours: 16

D. **Second Semester Junior Year**
From:
READ 3312. Literacy II-Middle School Reading Program (credit 7)
Total credit hours: 15

To:
HEC 3500. Development: Middle Childhood/Adolescence (credit 3)
READ 3314. Literacy for Middle School (credit 3)
Total credit hours: 14

5. **Multidisciplinary Studies, Middle School Social Studies, 6-8 Concentration, B.S.**
   A. **Second Semester Junior Year**
   From:
   READ 3312. Literacy II-Middle School Reading Program (credit 7)

   To:
   Elective (credit 4)
   READ 3314. Literacy for Middle School (credit 3)

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

4. Electrical & Computer Engineering
A. **Course/Curriculum Changes/Deletions.**

Course Changes:
1. **From:**
   ECE 2011 - Electrical Engineering Lab I
   Lab. 3. Credit 1.
   Prerequisite: C or better in either CSC 1300 or ENGR 2121, C or better in either ECE 2010 or ECE 2850, and C or better in MATH 1920 (ECE 2010 or

ECE 2850 may be taken concurrently).
Introduction to electrical and electronic components, circuits, test equipment, and measurement techniques.

To:
ECE 2011 - Electrical Engineering Lab I
Lab. 3. Credit 1.
Prerequisite: Consent of instructor and C or better in MATH 1920.
Introduction to electrical and electronic components, circuits, test equipment, and measurement techniques.

2. **From:**
ECE 3130 - Microcomputer Systems
Lec. 3. Lab. 3. Credit 4.
Prerequisite: C or better in CSC 1300; and either C or better in ECE 2140 or C or better in both ECE 2011 and ECE 2110.
Microcomputer system architecture. Software/hardware analysis. Programming microcomputer system using Assembly and C languages. Design hardware subsystem and integration with microcontroller for engineering application.

To:
ECE 3130 - Microcomputer Systems
Lec. 3. Lab. 3. Credit 4.
Prerequisite: C or better in CSC 1300.
Microcomputer system architecture. Software/hardware analysis. Programming microcomputer system using Assembly and C languages. Interface microcontroller with hardware subsystem for engineering applications.

3. **From:**
ECE 3140 - Digital System Design
Lec. 3. Credit 3.
Prerequisite: C or better in ECE 2140 or C or better in both ECE 2110 and ECE 3160.
Hierarchical, modular design of complex digital systems; synchronous and asynchronous sequential circuit analysis and design, testability, and circuit simulation for design verification and timing analysis. EDA tools, hardware-description languages, logic synthesis, and field programmable gate arrays.

To:
ECE 3140 - Digital System Design
Lec. 2. Lab. 3. Credit 3.
Prerequisite: C or better in ECE 2140 or C or better in both ECE 2110 and ECE 3160.
Hierarchical, modular design of complex digital systems; synchronous and asynchronous sequential circuit analysis and design, testability, and circuit simulation for design verification and timing analysis. EDA tools, hardware-description languages, logic synthesis, and field programmable gate arrays.

4. **From:**
ECE 3270 - Programmable Logic Controller Lab
Lab. 3. Credit 1.
Prerequisite: C or better in ECE 2050, or C or better ECE 3060, or C or better ME 3023, or C or better in CHE 2020, or C or better CEE 3030, or C or better MET 3200.
Introduction to Ladder Logic Programming, Relays, PLC in Automation & Control, Safety, Hardware Troubleshooting, Hands-on laboratory experiments and projects.

   To:
ECE 3270 - Programmable Logic Controller Lab
Lab. 3. Credit 1.
Prerequisite: C or better in either CSC 1300 or ENGR 1120.
Introduction to Ladder Logic Programming, Relays, PLC in Automation & Control, Safety, Hardware Troubleshooting, Hands-on laboratory experiments and projects.

5. **From:**
ECE 3710 - Introduction to Telecommunications
Lec. 3. Credit 3.
Prerequisite: C or better in either ECE 3010 or ECE 3330; and C or better in MATH 3470 (MATH 3470 may be taken concurrently).
Introduction to analog and digital communication systems: modulation and demodulation, signal spectra, coding for data compression and error correction.

   To:
ECE 3710 - Introduction to Telecommunications
Lec. 3. Credit 3.
Prerequisite: C or better in either ECE 3010 or ECE 3330.
Introduction to analog and digital communication systems: modulation and demodulation, signal spectra, coding for data compression and error correction.

6. **From:**
ECE 3920 - Professional Issues in Electrical and Computer Engineering
Lec. 1. Rec. 1. Credit 1.
Prerequisite: Junior Standing, C or better in either ECE 1000 or ECE 2010, C or better in either COMM 2025 or C or better in PC 2500.
Professional topics in Engineering, verbal technical communications.

   To:
ECE 3920 - Professional Issues in Electrical and Computer Engineering
Lec. 1. Rec. 1. Credit 1.
Prerequisite: Junior Standing, C or better in one of ECE 1000, ECE 1020, or ECE 2010, C or better in either COMM 2025 or PC 2500.
Professional topics in Engineering, verbal technical communications.

7. **From:**

ECE 4020 (5020) - Digital Signal Processing
Lec. 3. Credit 3.
Prerequisite: C or better in either ECE 3020 or ECE 3330; and C or better in
ECE 3130.
Theory and practice of discrete-time signals and systems, A/D and D/A
conversion, filter design, DSP Architecture and implementation,
programming, DSP applications.

To:
ECE 4020 (5020) - Digital Signal Processing
Lec. 3. Credit 3.
Prerequisite: C or better in either ECE 2110 or ECE 2140, C or better in either
ECE 3020 or ECE 3330, and C or better in ECE 3130.
Theory and practice of discrete-time signals and systems, A/D and D/A
conversion, filter design, DSP Architecture and implementation,
programming, DSP applications.

8. **From:**
ECE 4050 - Circuits and Electronics III
Lec. 3. Credit 3.
Prerequisite: C or better in ECE 3050, C or better in ECE 3130, C or better in
ECE 3330, C or better in ECE 3510, and C or better in MATH 3470.
System design, modeling, mixed-signal circuits, component variations,
reliability.

To:
ECE 4050 - Circuits and Electronics III
Lec. 3. Credit 3.
Prerequisite: C or better in either ECE 2110 or ECE 2140, C or better in ECE
3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE
3510, and C or better in MATH 3470.
System design, modeling, mixed-signal circuits, component variations,
reliability.

9. **From:**
ECE 4140 (5140) - Embedded System Design
Lec. 2. Lab. 3. Credit 3.
Prerequisite: 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.

To:
ECE 4140 (5140) - Embedded System Design
Lec. 2. Lab. 3. Credit 3.
Prerequisite: 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.

10. **From:**
ECE 4961 - Capstone Design I
Lec. 2. Lab. 4. Credit 3.
Prerequisite: C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in either MATH 2110 or MATH 2610.
The first in a sequence of two capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

To:
ECE 4961 - Capstone Design I
Lec. 2. Lab. 4. Credit 3.
Prerequisite: C or better in either ECE 2110 or ECE 2140; C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in any of MATH 2110, MATH 2610, or CSC 2700.
The first in a sequence of two capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

Course Deletions:

1. ECE 2001 - Computer-Aided Engineering in ECE
   Lec. 1. Credit 1.

2. ECE 2010 - Electric Circuits I
   Lec. 3. Credit 3.

3. ECE 2020 - Electric Circuits II
   Lec. 3. Credit 3.

4. ECE 2110 - Introduction to Digital Systems
   Lec. 3. Credit 3.

5. ECE 2851 - Principles of Electric Circuits Lab
   Lab. 3. Credit 1.

6. ECE 3010 - Signals and Systems
   Lec. 3. Credit 3.

7. **ECE 3020 - Discrete-Time Signals and Systems**
   Lec. 3. Credit 3.

8. **ECE 3360 - Electronics Lab**
   Lab. 3. Credit 1.

9. **ECE 3850 - Intermediate Principles of Electric Circuits**
   Lec. 3. Credit 3.

10. **ECE 4110 - Digital System Design**
    Lec. 2. Lab. 3. Credit 3.

Curriculum Changes:

In the B.S. Computer Engineering curriculum replace "MATH 2610 - Discrete Structures" with "MATH 2610 - Discrete Structures or CSC 2700 - Discrete Structures for Computer Science".

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

B. Addition of New Minor

The department proposes the addition of a new minor in Electrical and Computer Engineering. The minor shall consist of:
- ECE 2050 - Circuits and Electronics I (4 credit hours),
- ECE 3130 - Microcomputer Systems (4 credit hours), and
- A minimum of seven credit hours of ECE courses chosen from: ECE 2140, all ECE 3000-level courses except ECE 3920, all ECE 4000-level courses.
  The minor is not available to Computer Engineering and Electrical Engineering majors.

Justification: The critical role of electrical and computer systems in all modern systems should make this minor attractive to students in other engineering disciplines as well as other students with appropriate prerequisite knowledge (which is mathematics through MATH 1920: Calculus II and CSC 1300: Introduction to Problem Solving and Computer Programming). The minor is also designed for completion by students in the Bachelor of Science in Music program with an interest in live audio

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

5. Communication
A. Addition of New Courses.

1. **JOUR 3420 Podcasting**

Lec. 3, Credit 3.
Prerequisite: JOUR 2200
Course Description: This course introduces the basics of podcasting: audio/video storytelling, live interviewing, audio/video editing and publishing. Students will use royalty-free music, record natural sound for audio/video storytelling, and interview guests for podcasts.

2. **JOUR 3480 Social Media Management**
Lec. 3, Credit 3.
Prerequisite: JOUR 1110 or JOUR 2200
Course description: This course explores the strategic and practical aspects of social media management. Best practices are emphasized for choosing social media platforms, using tools within platforms, creating content, engaging audiences, and utilizing content management software for measuring analytics.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

6. <u>**History**</u>
   A. **Revise/Clarify Course Requirements.**

The History Department seeks to remove restrictions on the courses that students may take to fulfill the 15 credit hours of Natural Science included in B.S. degree so that students may choose from any of the courses included on the Natural Science category of the General Education course list. As this list expands or changes in the future, the course options for students in the History B.S. program would adjust to match.

Currently, and since the 2010-2011 academic year, the B.S. program sheets posted in the online catalog do not indicate any limitations, and students who click on the active hyperlink for Natural Science on these program sheets are simply referred to the full list of courses approved for the General Education Natural Science requirement. These program sheets identify only one restriction: "Fifteen credit hours of Science with at least eight credit hours completed in the same discipline." (Footnote 7).   Student Success and the Records Office indicate, however, that students are in fact restricted to a shorter list of options. The requested change/clarification will eliminate this contradiction and ensure that the information provided to students in the online catalog is accurate.

The program sheet posted online is accurate and does not change.   Footnote 7, including the information regarding option HIST and MATH courses, remains as is.

Friendly Amendment: Change the footnote 7 to reflect the following:

*Fifteen Credit hours of Science with at least eight credit hours **of general education natural science courses** completed in the same discipline. HIST 3900, HIST 4290(5290),*

HIST 4810 (5810), or MATH 4610 (5610) may substitute for three of the 15 total credit hours.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

7. <u>Music</u>
   A. **Addition of New Option.**

   The School of Music is proposing a new option in Live Audio Arts and Sciences under the Bachelor of Science in Music.

   The proposed option is designed to train audio engineers for careers in the live performance industry—which includes but is not limited to: sound for touring artists, sound for stage and theatrical productions, sound for large houses of worship, sound for large outdoor orchestral and operatic events, sound for the marching arts, and sound for large civic and community events.

   Most audio engineering programs focus on recording studio–based instruction. Students are taught in recording studios and trained to work as engineers in recording studios. While these programs do offer some classes in live audio engineering, very few focus the entire curriculum on it. As the technical complexity of live shows has increased, more employment opportunities have emerged in the live sound industry than in recording studios.

   It is our desire at Tennessee Tech to develop an audio engineering program that focuses exclusively on audio engineering for live performance. University audio programs have traditionally focused on the recording studio aspect of audio engineering. Engineers who mix for live performance require a different set of skills and abilities than those who work in recording studios.

   Over the past three decades, the number of jobs in the live audio industry has grown exponentially and the number of jobs in recording studios has plummeted. Artists who once made money selling albums now make the bulk of their income from the sales of concert tickets. In an effort to attract larger crowds, artists and concert promoters have consistently produced shows of increasing spectacle and technological complexity. Furthermore, the live audio industry has expanded to include not only audio for touring musicians, but also audio for musical theater; audio for the marching arts (marching bands and drum corps); and audio for large houses of worship.

   Tennessee Tech University has a long tradition with STEM education and this cross-disciplinary emphasis fits the University's mission and identity. The proposed option will give students the tools to creatively marry their artistic background with their love of science, technology, engineering, and math. Furthermore, by combining the resources of our College of Fine Arts, School of Music, College of Engineering and Department of Electrical Engineering, we seek to offer a degree program that uniquely and thoroughly prepares students for careers in the live audio industry.

Effective: Summer/Fall 2023

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

B. Course Changes.

After further discussion of this items name of the courses, it was suggested that the School of Music should withdraw this item until the next UCC meeting so the name of the courses could be revised. Dr. Colin Hill agreed.

Motion to withdraw. Lisa Zagumny
Second. Julie Baker
Vote. Motion carried.

8. Biology

A. Addition of New Courses/Deletions/Program Changes.

Course Additions:

1. BIOL 4880 (5880) – Bioethics
   Lec. 3. Credit 3.

   Prerequisite: Junior Standing. Introduction to the field of bioethics focusing on practical applications of ethical principles related to healthcare, medical science, and medical technology.

2. BIOL 4890 (5890) – Histology
   Lec. 1. Lab. 4. Credit 3.

   Prerequisite: BIOL 1113 and BIOL 1123 or BIOL 2010. 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.

Course Deletion.

1. BIOL 3060 – Comparative Vertebrate Embryology

Program Changes.

Health Sciences concentration in the Biology B.S. degree.

1. Remove BIOL 1000 (Introduction to Biological Methods) as a required course because only one section is taught per semester, and the offering is insufficient to meet the demand of all of our majors.

2. Remove BIOL 2310 (General Botany) as a required course to provide space for BIOL 4040 (Immunology), a course that is more applicable to this field of study.

3. Remove BIOL 4040 (Immunology) from the list of directed electives and require it of all students pursuing this concentration.

4. Add MATH 1910 (Calculus I) as an option during the first semester of the Freshman year to meet the general education math requirement. It is anticipated that most students pursuing this concentration will take MATH 1710 (Pre-calculus algebra), but students who score high enough on placement criteria will be encouraged to take MATH 1910 because some professional programs require it for admission.

5. Add BIOL 4070 (Vertebrate Development), BIOL 4860 (Disease Prevention), BIOL 4880 (Bioethics), and BIOL 4890 (Histology) to the list of directed electives to provide more flexibility.

6. Provide an option of CHEM 4500 (Nutritional Biochemistry), as an alternative to CHEM 4610 (General Biochemistry I), as one of the directed electives to provide more flexibility.

7. Change the sequence in which courses are recommended to be taken (See attached file) to better reflect a realistic program of study, especially for students who plan to take the MCAT exam.

Zoology concentration in the Biology B.S. degree.

1. Remove BIOL 3060 (Comparative Vertebrate Embryology) from the list of directed electives because it is no longer being taught.

2. Add BIOL 4070 (Vertebrate Development) to the list of directed electives.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

9. **Mathematics**
    A. **Curriculum Changes.**
        Replace the current "courses to be selected from the list below" to "TTU general education approved natural science courses completed in the same discipline" in all the concentrations.

        1. **From**:
            Science Sequence (8 hrs.)
            Courses to be selected from the list below:

ASTR 1010 &1020 Intro. Modern Astronomy I & II   8
BIOL 1010 & 1020 Intro to Biol & Div of Life   8
BIOL 1113 & 1123 Gen Biol I & Gen Biol II   8
BIOL 1113 & 2310 Gen Biol I & Gen Botany   8
CHEM 1010 & 1020 Intro. Chemistry I & II   8
CHEM 1110 & 1120 General Chemistry I & II   8

GEOL 1040 Physical Geology   4
GEOL 1045 Earth Environ Res. Soc.   4
or
PHYS 2110 Calculus Based Physics I with Lab   4
PHYS 2120 Calculus Based Physics II with Lab 4

To:

Natural Science Sequence (8 hrs.)
8 credit hours chosen from the TTU General Education Core Courses in the Natural Sciences. These credit hours must come from two 4-credit hour courses in the same discipline. The possible disciplines are ASTR, BIOL, CHEM, GEOL/GEOG, and PHYS.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

B. **Course Description Changes.**

1. **From:**
   MATH 3070: Statistical Methods I   Lec. 3 Credit 3
   Introduction to parametric statistical methods with some non-parametric alternatives, sampling, probability, Type I and Type II error, sample size estimation, confidence interval estimation, test of hypotheses using normal, Student's t, Snedecor's F, Chi-square and the binomial distributions, linear regression, analysis of variance, and data analysis utilizing statistical software.

   To:
   MATH 3070: Statistical Methods I   Lec. 3 Credit 3
   Introduction to parametric statistical methods, sampling, probability, type I and type II error, sample size estimation, confidence interval estimation, and testing hypotheses using the normal, Student's t, and F distributions, linear regression, analysis of variance, and data analysis utilizing statistical software.

2. **From:**
   MATH 3080: Statistical Methods II   Lec. 3 Credit 3
   Introduction to parametric statistical methods with some non-parametric alternatives, sampling, probability, Type I and Type II error, sample size estimation, confidence interval estimation, test of hypotheses using normal, Student's t, Snedecor's F, Chi-square and the binomial

distributions, linear regression, analysis of variance, and data analysis utilizing statistical software.

To:
MATH 3080: Statistical Methods II   Lec. 3 Credit 3
Introduction to parametric statistical methods using classic linear models. Simple and multiple linear regression, model validation, variables selection. Analysis of count data, inference and estimation of proportions, odds ratios, goodness-of-fit tests, Fisher's exact test, and logistic.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

10. **Professional Studies**
    A. **Addition of New Courses.**

        1. Special Topics PRST 4610-4619 Special Topics in Professional Studies, Credit 1
Prerequisite: None. Introductory seminar or lecture course on a selected topic, issue, or interest area in Professional Studies not covered in existing courses.
Effective: Fall 2023

        2. Special Topics PRST 4720-4729 Special Topics in Professional Studies, Credit 2
Prerequisite: None. Introductory seminar or lecture course on a selected topic, issue, or interest area in Professional Studies not covered in existing courses.
Effective: Fall 2023

        3. Special Topics PRST 4830-4839 Special Topics in Professional Studies, Credit 3
Prerequisite: None. Introductory seminar or lecture course on a selected topic, issue, or interest area in Professional Studies not covered in existing courses.
Effective: Fall 2023

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

11. **Human Ecology**
    A. **Addition of New Course/Deletion/Course Changes/Curriculum Changes.**

        Course Addition:
           1. HEC 4945 Sports Performance and Human Nutrition Lec 3. Credit 3.
Prerequisites: HEC 1030 or HEC 2020
Principles and application of sports nutrition strategies to optimize sports performance.

        Course Deletion:

           1. HEC 4940 Nutrition, Fitness and Wellness. Lec.2 Credit 2.

Basic principles of wellness promotion through exercise and nutrition: assessment and intervention strategies are included.

Course Changes:

1. HEC 3066 Family Violence across the Lifespan Lec 3. Credit 3.
From
Prerequisite: HEC 2065, Junior or Senior Standing.

To
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065

2. HEC 3100 Cultural Competence for Professionals Lec 3. Credit 3.
From
Prerequisite: HEC 2065 and Junior or Senior Standing

To
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065

3. HEC 3565 Loss and Bereavement for Children and Families Lec. 3. Credit 3.
From
Prerequisite: HEC 2065 and HEC 2200; Junior or Senior Standing.

To
Prerequisite: HEC 2065 and HEC 2200; Junior or Senior Standing. May not take concurrently with HEC 2065 and HEC 2200

4. HEC 3660 Interpersonal Relationships Lec 3. Credit 3.
From
Prerequisite: HEC 2065.

To
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065

5. HEC 4065. Social Policy for Children and Families Lec 3. Credit 3.
From
Prerequisite: HEC 2065.

To
Prerequisite: HEC 2065 and Junior or Senior Standing. May not take concurrently with HEC 2065

6. HEC 4610 Family Stress Management Lec 3. Credit 3.
From

Prerequisite: Junior or Senior standing; HEC 2065.

To

Junior or Senior standing; HEC 2065. May not take concurrently with HEC 2065

7. HEC 4630 Family Life Education Lec 3. Credit 3.
From
Prerequisite: HEC 2065; Junior or Senior Standing in Human Ecology.

To
Prerequisite: HEC 2065; Junior or Senior Standing in Human Ecology. May not take concurrently with HEC 2065

Curriculum Changes.

Nutrition and Dietetics Curriculum

1. **From**:
Elective Credit 3 in the Sophomore year second semester
Total Credits 17

To:
Nutrition and Dietetics Curriculum
Elective Credit 2 in the Sophomore year second semester
Total credits 16

2. **From**:
HEC 4940 Nutrition, Fitness and Wellness 2 credits in Senior Year, Second Semester
Total credits 14

To:
Replace HEC 4940 with HEC 4945 Sports Performance and Human Nutrition 3 credits in Senior Year, Second Semester
Total Credits 15

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

12. **Agriculture**
   A. **Prefix Changes.**
      It is requested for the creation and approval of the prefix ANPS. This prefix would be used for courses that concentrate on Poultry Science and will be a component of the Animal Science major. Students who take the ANPS prefixed poultry science courses will be readily recognized with specialized training as compared to the ANS prefix currently used for poultry courses.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

      B. Course Addition.

          1. ANPS 1300: Introduction to Poultry Science, Fall. Lec. 3. Credit 3.
This course provides an overview of the poultry industry with an emphasis in careers in the biological sciences.

      C. Course Addition.

          1. ANPS 2010: Poultry Management Systems, Fall. Lec. 3. Credit 3.
This course will provide student awareness of various management systems within the poultry industry.

      D. Course Addition.

          1. ANPS 3200: Applied Poultry Nutrition, Fall. Lec. 2. Lab 2. Credit 3.
This course will provide insight regarding applicable poultry nutrition practices. This course is designed to allow students to better understand the complexities of poultry nutrition. Students will conduct a small experiment, investigating the effects of a nontraditional feed ingredient.

      E. Course Addition.

          1. ANPS 3990: Experiential Learning in Poultry Science, Fall and Spring. Lab. 2. Credit 1.
This course will allow students to actively participate in current research at Tennessee Tech University's Poultry Science Research Center.

      F. Course Addition.

          1. ANPS 4020: Feed Manufacturing, Fall. Lec. 3. Credit 3.
Prerequisite: ANS 3015: Animal Nutrition
This course will provide insight regarding applicable feed manufacturing and diet formulation practices.

Motion to approve. Julie Baker
Second. Lisa Zagumny
Vote. Motion carried.

      G. Curriculum Changes.

        Pre-Vet curriculum
          1. From:
(Remove) BIOL 2310 – Botany as a Pre-Veterinary Science requirement

          To:
(Add) BIOL 1113 – General Biology I as a Pre-Veterinary Science requirement, in first semester of Sophomore Year (remove BIOL 2310 from this program of study).

Motion to approve. Julie Baker
Second. Lisa Zagumny

Vote. Motion carried.

13. <u>**UCC Guidelines**</u>
    A. **Guideline Changes.**

    The UCC Guidelines for proposal submissions has been updated to assist anyone submitting a proposal to UCC, for example, with course additions, deletions, course changes, curriculum changes, new minors, new programs, and new concentrations. The guide has given examples of the memo that should be submitted with the proposal and sample curriculum sheets with corrections.

    Motion to approve. Julie Baker
    Second. Lisa Zagumny
    Vote. Motion carried.

14. <u>**Other Such Matters**</u>
    A. **Attendance to UCC**

    Dr. Sharon Huo brought to the committee's attention that all chairs are responsible for attending the UCC meetings. If they have an agenda item they put forth from their department they must present it or the item will be skipped until the next UCC meeting.

    Motion to adjourn. Julie Baker
    Second. Lisa Zagumny
    Vote. Motion carried.

The meeting was adjourned at 4:13pm.