University Curriculum Committee
February 14, 2013

The University Curriculum Committee met on Thursday, February 14 at 3:00 p.m. in the President's Conference Room, Derryberry Hall.

Members present:

Dr. Melinda Anderson
Dr. Curtis Armstrong
Dr. Julie Baker
Dr. Rita Barnes
Dr. Doug Bates
Dr. Jeff Boles
Dr. Brad Cook
Dr. Kris Craven
Mr. Ward Doubet
Ms. Edith Duvier
Dr. Kurt Eisen
Ms. Julie Galloway
Dr. Susan Gore
Dr. Bobby Hodum
Dr. Darrell Hoy
Dr. Steve Isbell
Dr. Marketta Laurila
Dr. Roy Loutzenheiser
Dr. Allan Mills
Dr. Linda Null
Dr. Francis Otuonye
Dr. James Raymondo
Dr. Jeff Roberts
Dr. Stephen Robinson
Dr. Steve Smith
Dr. Barry Stein
Dr. Mark Stephens
Dr. Doug Talbert
Ms. Janet Whiteaker
Ms. Jerri Winningham
Ms. Elissa McLerran
Mr. Clay Stubblefield

Members absent:

Mr. Jeff Adams
Dr. Pedro Arce
Dr. Pat Bagley
Dr. Ahmed Elsawy
Dr. Mike Harrison
Dr. Sharon Huo
Dr. Wayne Johnson
Dr. James Jordan-Wagner
LTC Bret Martin
Dr. Ben Mohr
Dr. Joseph Rencis
Dr. Jennifer Shank
Dr. Matt Smith
Mr. Josh Herwig
Ms. Emily Keefer

Official Representatives:

Dr. Rob Seay for Dr. Fesler
Dr. Bruce Greene for Dr. Foster
Ms. Brandi Hill for Ms. Rogers
Ms. Lydia Brown for Mr. Hill

Guests:

Ms. Ann Marie Carrick
Ms. Denise Burgess
Ms. K'Cindra Cavin
Dr. Dennis George
Ms. Pam Cai

SUMMARY OF PROCEEDINGS

1. Approval of agenda
2. Approval of October 25, 2012 minutes
3. Approval of course changes from the Department of Curriculum and Instruction for ECSP 4100, ELED 3152, and ELED 4140
4. Approval of course changes from the Department of Curriculum and Instruction for ECSP 4871, ELED 4871, SPED 4871, SEED 4871, CUED 4800, ECSP 4872, ELED 4872, SPED 4872, and SEED 4872.
5. Approval of course addition (CUED 4856 American Reads) from the Department of Curriculum and Instruction
6. Approval of Secondary Education Earth Science program change from the Department of Curriculum and Instruction
7. Approval of course additions and deletion from the Department of Physics
8. Approval of course changes from the Department of Art
9. Informational item – Creation of an "Undeclared" concentration from the Department of Art for the BFA
10. Approval of course deletion for MATH 2011 and curriculum changes from the Department of Mathematics
11. Approval of course additions from the Department of Sociology and Political Science
12. Approval of course changes from the Department of Basic Engineering
13. Approval of curriculum change from the Department of Civil and Environmental Engineering
14. Approval of course addition, deletions, changes and curriculum changes from the Department of Computer Science
15. Approval of course and curriculum changes from the Department of Mechanical Engineering
16. Approval of course addition and curriculum changes from the Department of Electrical and Computer Engineering
17. Approval of course change from the School of Agriculture
18. Approval of program addition (Pre-Physician Assistant) and course change from the Department of Chemistry
19. Approval of course addition from the Department of History for HIST 4420
20. Approval of course additions from the Department of History
21. Approval of course change from the Environmental and Sustainability Studies Program
22. Announcement of Election Committee for 2013-14 chairperson
23. Other such matters
    Jerri Winningham – GPA issues
    Approval of curriculum change from the Department of Biology

PROCEEDINGS

1. Approval of Agenda

Motion. Dr. Loutzenheiser moved to approve the agenda as submitted. The motion was seconded by Dr. Stein and carried.

2. Approval of October 25, 2012 Minutes

Motion. Dr. Roberts moved to approve the minutes. The motion was seconded by Dr. Null and carried.

3. **Approval of Course Changes from the Department of Curriculum and Instruction**

In a memorandum dated November 27, 2012, approval was requested for the following:

Current Catalog: ECSP 4100 Developmentally Appropriate Practices K-4: Lec.2. Lab 4. Credit 3. Prerequisite: Full admission to the Teacher Education Program. Corequisite: ECSP 4000. Curriculum, instruction, management and assessment for grades K-4 in diverse and inclusive settings~~.Includes practicum.~~Practicum embedded into course.

Change: Lec. 3. Credit 3.

Change: Practicum embedded in course.

Delete: Corequisite: ECSP 4000

Delete: ESCP 4100 Lab Credit: 0

Current Catalog: ELED 3152 Teaching of Mathematics: Lec. 3. Credit 3.
Prerequisite: Full admission to the Teacher Education Program. Corequisite: ELED 3140, ELED 3151, ELED 4140. Use of modern methods and strategies for teaching mathematics and translating theory into practice.

Delete: Corequisite ELED 3151

ADD: Corequisite FOED 3800

Current Catalog: ELED 4140 Science for Elem. Teachers: Lec. 2. Credit 2.
Prerequisite: Admission to the Teacher Education Program. Curricula content of elementary school science including materials and methods of developing understanding and skills in science for children.

ADD: Corequisite: ELED 3140, ELED 3152, FOED 3800

Current Catalog: ELED 3140 Teaching of Social Studies: Lec. 2. Credit 2.
Prerequisite: Admission to the Teacher Education Program. Corequisite: FOED 3800. Current practices, research, innovations, and unit method are emphasized.
ADD: Corequisite: ELED 3152, ELED 4140, FOED 3800

Motion. Dr. Baker moved to approve the changes effective Spring 2013. The motion was seconded by Ms. Whiteaker and carried.

4. Approval of Course Changes from the Department of Curriculum and Instruction

In a memorandum dated January 29, 2013, approval was requested for the following:

Course Changes:
ADD:
ECSP 4871 Residency I, ELED 4871 Residency I, SPED 4871 Residency I **add a Pre-requisite of FOED 3810 grade B or better.**

SEED 4871 Residency I **add a Pre-requisite of FOED 3820 grade B or better.**

CUED 4800 Student Engagement **add a co-requisite of ELED 4871 Residency I**

ECSP 4872 Professional Seminar I **add a co-requisite of ECSP 4871 Residency I**
ELED 4872 Professional Seminar I **add a co-requisite of ELED 4871 Residency I**
SPED 4872 Professional Seminar I **add a co-requisite of SPEP 4871 Residency I**
SEED 4872 Professional Seminar I **add a co-requisite of SEED 4871 Residency I**

Motion. Dr. Baker moved to approve the change effective Fall 2013. The motion was seconded by Dr. Stein and carried.

5. Approval of Course Addition from the Department of Curriculum and Instruction

In a memorandum dated January 29, 2013, approval was requested for the following:

Addition:
CUED 4856 America Reads – 1 Cr. Hr. This course provides knowledge of the needs, characteristics, and tutoring methods pertaining to children and young adults with whom they will be working. Course may be repeated up to 3 times for a total of 3 credit hours.

Motion. Dr. Baker moved to approve the addition effective Spring 2013. The motion was seconded by Dr. Stein and carried.

6. Approval of Curriculum Changes from the Department of Curriculum and Instruction

In a memorandum dated November 27, 2012, approval was requested for the following:

SEED Earth Science
Deletions:
Elective (1 hr.) Freshman Year
Elective (1 hr.) Junior Year
GEOL 4810 Special Problems (1 hr.)

Addition:
UD Geology Elective (3 hrs.) Junior Year

Motion. Dr. Baker moved to approve the changes effective Spring 2013. The motion was seconded by Dr. Stein and carried.

7. Approval of Course Additions and Deletion from the Department of Physics

In a memorandum dated January 22, 2013, approval was requested for the following:

Course Additions:
Phys 4901 – Selected Topics in Physics
Lec. 1. Credit 1.
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

Phys 4902 – Selected Topics in Physics
Lec. 2. Credit 2.
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

Phys 4903 – Selected Topics in Physics
Lec. 3. Credit 3.
Prerequisite: Consent of Instructor. Topics covered will be chosen on the basis of student interest and need. Course may be taken for credit more than once as long as the topic is different.

Course Deletion:
PHYS 4900 - Selected Topics in Physics
Credit 1 to 4. (Up to eight credits may be earned under this course title).
Topics covered will be chosen on the basis of student interest and need.

Motion. Dr. Robinson moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Mills and carried.

8. Approval of Course Changes from the Department of Art

In a memorandum dated February 2, 2013, approval was requested for the following:

Course Changes:
The Department of Art seeks to remove all prerequisite classes and consent of instructor requirements from the following classes. Although it is recommended that students take the classes in sequence, it is not necessary and the frequency with which the prerequisite classes are offered does not always make it practical. Also, the title and course description of ART 3130 is being updated to reflect the current millennium, and some editorial changes are sought in the descriptions of ART 3150 and ART 4100. Changes are to be effective fall semester 2013.

From:

ART 3130 - Twentieth-Century Art
Lec. 3. Credit 3.
Prerequisite: ART 2120 or consent of instructor. A study of the major art movements of the twentieth century.

To:

ART 3130 – Art Since 1900
Lec. 3. Credit 3.
A survey of the major movements in western art history from the late 19th century through the present.It is recommended but not required that students take ART 2120 before taking ART 3130.

From:

ART 3150 - History of Crafts I
Lec. 3. Credit 3.
Prerequisite: Consent of the instructor. Survey of prehistoric through ancient crafts and the crafts of India, China, Japan, Africa, Native America and Islam.

To:

ART 3150 - History of Crafts I
Lec. 3. Credit 3.
Survey of prehistoric through ancient crafts of the Mediterranean civilizations, and the crafts of India, China, Japan, Africa, Native America and Islam.

From:

ART 3160 - History of Crafts II
Lec. 3. Credit 3.
Prerequisite: ART 3150 or consent of the instructor. Survey of crafts from the Medieval Period through the present.

To:

Lec. 3. Credit 3.
Survey of crafts from the Medieval Period through the present.It is recommended but not required that students take ART 3150 before taking ART 3160.

From:

ART 4100 - Art Tour
Credit 3.
Prerequisite: ART 1030 or ART 2110 or ART 2120 or ART 3130 or ART 3150 or ART 3160 or consent of instructor. A 1-2 week trip to view internationally recognized art. A term paper is required. May be repeated for credit if trip is different.

To:

ART 4100 - Art Tour
Credit 3.
A 1-2 week trip to view internationally recognized art. Additional preparatory studies and written assignments will be required. May be repeated for credit if trip is different.

Motion. Mr. Doubet moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Stein and carried.

9. Informational Item – Creation of "Undeclared" Concentration of Admission for the BFA from the Department of Art

In a memorandum dated February 4, 2013, the following was presented as an informational item.

The Art Department requests the creation of an "Undecided" category of admission for the Bachelor of Fine Arts. Many students entering as freshmen will have interests in more than one studio medium, and few will have significant experience in less common specialized studios such as glass or fibers. Offering the undecided BFA admission category will normalize the status of for freshman art students without a declared concentration and should reduce unnecessary stress and confusion for them. This category of admission will be effective immediately. A freshman curriculum for the undecided category of the Bachelor of Fine Arts is attached.

An explanation of the undecided BFA admission category to be published on the Art Department website and in the undergraduate catalog follows:

"The purpose of the undecided category of admission to the Bachelor of Fine Art Program is to provide an ~~initial major for entering students who have not decided on a specific concentration~~***initial***

concentration for entering BFA majors who have not yet decided a specific concentration. Students who are eligible for admission at Tennessee Tech can begin taking art foundations courses, introductory studio courses and general education core courses before declaring a concentration in a particular studio or in art education. The art foundations courses include hands-on studio work learning the elements and principles of visual organization, methods of developing concepts and solving design problems, and basic approaches to the critical analysis of art. These courses build the basic knowledge and skills required to succeed in successive courses throughout the BFA degree program. Introductory studio courses begin to establish the range of knowledge and specific skills that characterize their respective media disciplines. Art faculty members will advise undecided BFA majors and assist them in discovering the studio discipline for which they are best suited. Typically, freshman students will also take English writing, math and general education core classes in social sciences, humanities and/or natural sciences. Students can complete the freshman year as an undecided student without delaying graduation in the degree-granting concentration they choose. "

Dr. Eisen made a suggested change in wording as reflected above. This was agreeable with Mr. Doubet.

10. Approval of Course Deletion and Curriculum Changes from the Department of Mathematics
In a memorandum dated January 29, 2013, approval was requested for the following:

Course Deletion:
MATH 2011 Matrix Algebra Computer Lab Lab 1. Cr. 1

Curriculum Changes:
From:
Approved natural science sequence (8 cr. hrs.)
ASTR 1010-1020; or BIOL 1010-1020; or BIOL 1110-1120; or CHEM 1010-1020; or CHEM 1110-1120; or GEOL 1040-1045; or PHYS 2110, 2111, 2120, 2121.

To:
Approved natural science sequence (8 cr. hrs.)
ASTR 1010-1020; or BIOL 1010-1020; or BIOL 1105-1115; or BIOL 1105-2110; or CHEM 1010-1020; or CHEM 1110-1120; or GEOL 1040-1045; or PHYS 2110, 2111, 2120, 2121.

From:
CSC 2100 Introduction to Problem Solving and Computer Programming (3 cr. hrs.)

To:
ENGR 1120 Programming for Engineers (2 cr. hrs.) or CSC 2100/CSC 2101 Intro to Problem Solving and Computer Programming (4 cr. hr.)

Motion. Dr. Mills moved to approve the changes effective Fall 2013. The motion was seconded by Ms. Whiteaker and carried.

11. Approval of Course Additions from the Department of Sociology and Political Science
In a memorandum dated January 28, 2013, approval was requested for the following:

Course Additions:
POLS 4220. Campaigns and Elections. Lec. 3. Credit 3.

Prerequisite: POLS 1000 or consent of the instructor. Considers the practical aspects of campaigning for public office on all levels of government including strategy, financing, organization, research, and media.

POLS 4520. Comparative Political Behavior. Lec. 3. Credit 3.
Prerequisite: POLS 1000 or consent of the instructor. Examines the individual's decision to participate in political life and the impact those decisions have on policy formation across the world's developed democracies.

POLS 3500. Political Conspiracy Theories. Lec. 3. Credit 3.
Prerequisite: POLS 1000 or consent of the instructor. Considers the relationship between governments and conspiracy theories, including the political, social and psychological factors that breed conspiracy theories and increase distrust of government institutions.

Motion. Dr. Raymondo moved to approve the additions effective Fall 2013. The motion was seconded by Ms. Whiteaker and carried.

12. Approval of Course Changes from the Department of Basic Engineering
In a memorandum received February 5, 2013, approval was requested for the following:

Prerequisite Changes:
FROM: ENGR 1110. Engineering Graphics. Lec.and Lab. 4. Credit 2.
Visualization skills and graphic communication techniques for engineers, sketching, computer-aided drafting, and solid modeling, drawing interpretation.

TO: ENGR 1110. Engineering Graphics. Lec.and Lab. 4. Credit 2.
Prerequisite: MATH 1710, MATH 1720, MATH 1730, or MATH 1910. Visualization skills and graphic communication techniques for engineers, sketching, computer-aided drafting, and solid modeling, drawing interpretation.Prerequisite courses can be taken concurrently.

FROM: ENGR 1120 - Programming for Engineers. Lec. and Lab. 4. Credit 2.
Prerequisite: MATH 1730, MATH 1910 or MATH 1920.
Problem definition, algorithm development, flowcharting, and structured programming using a high level language. MATH 1730, MATH 1910 or MATH 1920 can be taken concurrently.

TO: ENGR 1120 - Programming for Engineers. Lec. and Lab. 4. Credit 2.
Prerequisite: MATH 1720, MATH 1730, MATH 1910 or MATH 1920. Problem definition, algorithm development, flowcharting, and structured programming using a high level language.~~MATH 1730 ,~~MATH 1910 or MATH 1920 can be taken concurrently.

Motion. Dr. Craven moved to approve the changes effective Summer 2013. The motion was seconded by Dr. Mills and carried.

13. Approval of Curriculum Change from the Department of Civil and Environmental Engineering
In a memorandum dated February 6, 2013, approval was requested for the following:

The CEE department requests to change the list of eligible MATH electives in the curriculum. The current list includes:

MATH 2010, 3810, 4510, or 4710

As MATH 4710 has not been taught in several years, that course should be removed from the list. In addition, CEE requests to add an additional course (MATH 4210) to list of MATH electives. As such, the revised list includes:

MATH 2010, 3810, 4210, or 4510

Motion. Dr. Loutzenheiser moved to approve the change effective Fall 2013. The motion was seconded by Dr. Mills and carried.

14. Approval of Course Addition, Deletions, Changes and Curriculum Changes from the Department of Computer Science

In a memorandum dated January 24, 2013, approval was requested for the following:

Course Addition:
CSC 4760. Parallel Programming. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2400 and CSC 2500. Foundations of parallel computing including the parallel computer architectures, principles of parallel algorithm design, OpenMP and MPI programming models for shared- and distributed-memory systems, along with numerical and non-numerical algorithms for parallel systems.

Course Deletions:
Remove the following courses from the undergraduate catalog:

Current course description: CSC 3310 (Computer Logic and Sequential Design), CSC 3400 (Distributed and Net-Centric Programming), CSC 3402 (Distributed and Net-Centric Programming for Engineers), CSC 3700 (Software Analysis and Design), CSC 4950 (Capstone Project), and CSC 4951 (Web Design Capstone Project Course)

Motion. Dr. Talbert moved to approve the addition and deletions effective Fall 2013. The motion was seconded by Dr. Robinson.

Course Modifications:
1. Renumber Computer Graphics from CSC 3750 to CSC 4750.
Current course description:

CSC 3750. Computer Graphics. Lec. 3. Credit 3.
Prerequisite: MATH 2010 and C or better in CSC 2400. Interactive graphical techniques including three-dimensional transformations, hidden surface removal, texture mapping, and shading.

Proposed course description:

CSC 4750. Computer Graphics. Lec. 3. Credit 3.
Prerequisite: MATH 2010 and C or better in CSC 2400. Interactive graphical techniques including three-dimensional transformations, hidden surface removal, texture mapping, and shading.

2. Require MATH 1910 as a prerequisite (that may be taken concurrently) for CSC 2100 and CSC 2101.

Current course descriptions

CSC 2100. Introduction to Problem Solving and Computer Programming. Lec. 3. Credit 3.
Prerequisite: MATH 1130, MATH 1710, MATH 1720, MATH 1730, MATH 1830, or MATH 1910. Corequisite: CSC 2101. Digital computers; problem solving and algorithm development; programming is introduced using a procedural approach, but classes and object-orientation are introduced; design and testing are emphasized. Prerequisite courses may be taken concurrently.

CSC 2101. Problem Solving and Computer Programming Lab. Lab 1.Credit 1.
Corequisite: CSC 2100. A series of weekly laboratory exercises for developing proficiency in problem solving and computer programming.

Proposed course descriptions:

CSC 2100. Introduction to Problem Solving and Computer Programming. Lec. 3. Credit 3.
Prerequisite: ~~MATH 1130, MATH 1710, MATH 1720, MATH 1730, MATH 1830, or~~ MATH 1910. Corequisite: CSC 2101. Digital computers; problem solving and algorithm development; programming is introduced using a procedural approach, but classes and object-orientation are introduced; design and testing are emphasized. ~~Prerequisite courses~~ MATH 1910 may be taken concurrently.

CSC 2101. Problem Solving and Computer Programming Lab. Lab 1. Credit 1.
Prerequisite: MATH 1910. Corequisite: CSC 2100. A series of weekly laboratory exercises for developing proficiency in problem solving and computer programming. MATH 1910 may be taken concurrently.

Motion. Dr. Talbert moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Mills and carried.

3. Drop CSC 1610 as a prerequisite for CSC 2110 and CSC 2111 and add 'C' or better in MATH 1910 as a prerequisite to CSC 2110 and CSC 2111.

Current course descriptions:

CSC 2110. Data Structures and Algorithms. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2100, CSC 2101, and CSC 1610. Corequisite: CSC 2111. Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis. CSC 1610 may be taken concurrently.

CSC 2111. Data Structures and Algorithms Lab. Lab 1.Credit 1.
Prerequisite: C or better in CSC 2100, CSC 2101 and CSC 1610 Corequisite: CSC 2110. A series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures. CSC 1610 may be taken concurrently.

Proposed course descriptions:

CSC 2110. Data Structures and Algorithms. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2100, CSC 2101, and MATH 1910~~, and CSC 1610~~. Corequisite: CSC 2111. Abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis.~~CSC 1610 may be taken concurrently.~~

CSC 2111. Data Structures and Algorithms Lab. Lab 1.Credit 1.
Prerequisite: C or better in CSC 2100, CSC 2101, and MATH 1910 ~~and CSC 1610~~Corequisite: CSC 2110. A series of weekly laboratory exercises for developing proficiency in implementing and utilizing data structures. ~~CSC 1610 may be taken concurrently.~~ .

4. Remove CSC 2110, CSC 2111, and CSC 2710 as prerequisites for CSC 4200.

Current course descriptions:

CSC 4200. Computer Networks. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2400, CSC 2710 and CSC 2110, CSC 2111. Data communications and computer networks; network models and protocols; local area networks; and data security.

Proposed course descriptions:

CSC 4200. Computer Networks. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2400~~, CSC 2710 and CSC 2110, CSC 2111~~. Data communications and computer networks; network models and protocols; local area networks; and data security.

5. Remove CSC 2710 as a prerequisite for CSC 4400.

Current course descriptions:

CSC 4400. Analysis of Algorithms. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2400 and CSC 2710. Analysis techniques; search, traversal, string, and graph algorithms; and NP-hard and NP-complete problems.

Proposed course descriptions:

CSC 4400. Analysis of Algorithms. Lec. 3. Credit 3.
Prerequisite: C or better in CSC 2400 a~~nd CSC 2710~~.Analysis techniques; search, traversal, string, and graph algorithms; and NP-hard and NP-complete problems.

6. CSC 4300: Renumber to CSC 3300 and add 'C' or better in CSC 1610 as a prerequisite.

Current course description:

CSC 4300. Database Management Systems. Lec. 3. Credit 3.

Prerequisite: Junior standing and C or better in CSC 2110, CSC 2111. Organization and management of large data files; data definition; database models; query languages; crash recovery; concurrency control; and case studies.

Proposed course description:

CSC 3300. Database Management Systems. Lec. 3. Credit 3.
Prerequisite: Junior standing and 'C' or better in CSC 1610, CSC 2110, and CSC 2111. Organization and management of large data files; data definition; database models; query languages; crash recovery; concurrency control; and case studies.

7. Add CSC 3300 as a prerequisite for CSC 4610 and CSC 4990.

Current course description:

CSC 4610. Software Engineering I. Lec. 2. Lab. 2. Credit 3.
Prerequisite: C or better in CSC 2120, and CSC 2400 and senior standing. Course covers process models, agile methods, requirement analysis, design, testing, usability, configuration management and project management.

CSC 4990. Computer Science Internship. Credit 3 or 6.
Prerequisite: Department approval, C or better in CSC 3030 and CSC 3550. Part-time employment in a professional or institutional situation related to the student's area of concentration in computer science. This course may be taken as two 3-hour courses or one 6-hour course. The 6-hour option will be approved in only very limited circumstances.

Proposed course description:

CSC 4610. Software Engineering I. Lec. 2. Lab. 2. Credit 3.
Prerequisite: C or better in CSC 2120, CSC 2400, CSC 3300, and senior standing. Course covers process models, agile methods, requirement analysis, design, testing, usability, configuration management and project management.

CSC 4990. Computer Science Internship. Credit 3 or 6.
Prerequisite: Department approval, C or better in CSC 3030, CSC 3550, and CSC 3300. Part-time employment in a professional or institutional situation related to the student's area of concentration in computer science. This course may be taken as two 3-hour courses or one 6-hour course. The 6-hour option will be approved in only very limited circumstances.

8. Add SPCH 2410 or PC 2500 as a prerequisite for CSC 3030, and restructure the course description to better reflect course content.

Motion. Dr. Talbert moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Stein and carried.

Current course description:

CSC 3030. Practical and Professional Issues in Computer Science. Lec. 1. Lab. 1. Credit 1.

Prerequisite: Junior standing and C or better in CSC 2110, CSC 2111. Required for all computer science majors, including transfer students. Written, oral, and audio-visual communication in computer science; presentation techniques, report preparation, and technical correspondence. Social, ethical, and career aspects of computing.

Proposed course description:

CSC 3030. Practical and Professional Issues in Computer Science. Lec. 1. Lab. 1. Credit 1.
Prerequisite: Junior standing, SPCH 2400 or PC 2500, and C or better in CSC 2110, CSC 2111. Social, ethical, and career aspects of computing.~~Required for all computer science majors, including transfer students.~~Course includes written, oral, and audio-visual communication in computer science. ~~presentation techniques, report preparation, and technical correspondence. Social, ethical, and career aspects of computing.~~

Curriculum Changes:
1. Add a requirement of CSC 4200 (Networks) and remove three hours of electives.
2. Replace Math 2010 (2 hours) + Math 2011 (1 hour) with the currently offered three-hour Matrix Algebra course (Math 2010).
3. Add CSC 4670: Parallel Programming to the advance core options.

Motion. Dr. Talbert moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Mills and carried.

15. Approval of Course and Curriculum Changes from the Department of MechanicalEngineering
In a memorandum received February 5, 2013, approval was requested for the following:

Prerequisite Changes:
FROM/TO:
ME 4370 - Mechatronics/Intel Mach Engr Lec. 2. Lab. 2. Credit 3.

Prerequisites:
~~ECE 3810, and 3860~~ECE 2010, PHYS 2121; ME 3050 and ME 3060. Mechatronics; number systems, microcontroller technology and architecture of 8-bit microcontrollers (e.g. Motorola MC68H110), assembly language programming, A/D and D/A conversion, parallel I/O, programmable timer operation, interfacing sensors and actuators, applications, and team project ondsign and implementation of a mechatronic system.

Curriculum Changes:
BSME – Mechatronics Concentration
REPLACE: MATH 2010 Matrix Algebra (2 cr-hr)
MATH 2011 Matrix Algebra Lab (1 cr-hr)

BY: MATH 2010 Matrix Algebra & Lab (3 cr-hr)

Motion. Dr. Hoy moved to approve the changes effective Summer 2013. The motion was seconded by Dr. Loutzenheiser and carried.

16. Approval of Course Addition and Curriculum Changes from the Department of Electrical Engineering

In a memorandum dated February 4, 2013, approval was requested for the following:

Course Addition:

ECE 1020. Connections to Electrical and Computer Engineering. Rec. 2.Credit 1.
Prerequisite: Freshman Standing. Engages the student in academic and non-academic, out-of-classroom activities to facilitate transition into the electrical or computer engineering program. Faculty interaction, peer mentoring, professional student organizations and electronic kit construction.

Motion. Dr. Loutzenheiser moved to approve the addition effective Fall 2013. The motion was seconded and carried.

Curriculum Additions:
Add ECE 1020 to the EE, EE with Mechatronics Concentration and CmpE programs. This course is not a part of the curriculum for ECE students.

Curriculum Deletions:
Remove ENGR 1020 from the EE, EE with Mechatronics Concentration and CmpE programs.

Motion. Dr. Loutzenheiser moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Talbert and carried.

17. Approval of Course Change from the School of Agriculture
In a memorandum dated February 4, 2013, approval was requested for the following:

Course Change:

From:
AGRN 3230. Environmental Soil Science.-- Spring. Lec. 3. Lab. 2. Credit 4.
Prerequisite: AGRN 2210.Soil and water conservation as related to land use, land use planning, and impact of agriculture on the environment.

To:
AGRN 3230. Environmental Soil Science.--Spring. Lec. 3. Lab. 2. Credit 4.
Prerequisites: AGRN 3210, AGRN 3220**.** Soil and water conservation as related to land use, land use planning, and impact of agriculture on the environment.

Motion: Dr. Greene, representing Dr. Foster, moved to approve the change effective Fall 2013. The motion was seconded by Dr. Talbert and carried.

18. Approval of Program Addition and Course Change from the Department of Chemistry
In a memorandum dated February 5, 2013, approval was requested for the following:

Program Addition:
Pre-Physician Assistant

Physician Assistants (PA) are health care professionals who are licensed to practice medicine under the supervision of a physician. PAs work in health care offices, hospitals, clinics, universities, community health centers, and other areas. As vital members of a health care team, PAs perform physical exams, treat and diagnose illnesses, assist in surgery, write prescriptions, and advise patients on health care concerns among other responsibilities. As our nation's health care system continues to transform, the demand for quality primary care health professionals, such as PAs, is likely to grow significantly. The addition of a Pre-Physician Assistant Program will give TTU students the opportunity to prepare for this growing and essential health career field.

Curriculum:
Freshman Year

- BIOL 1105 - Foundations of Biology Credit: 4.
- BIOL 1115 - General Zoology Credit: 4.
- CHEM 1110 - General Chemistry I Credit: 4.
- CHEM 1120 - General Chemistry II Credit: 4.
- ENGL 1010 - Writing I Credit: 3.
- ENGL 1020 - Writing II Credit: 3.
- MATH - Credit: 6.[1]
- PSY 2010 - General Psychology Credit: 3.
- UNPP 1020 - University Pre-Professional, First-Year Interactions and Advisement Credit: 1.

Total: 32

Sophomore Year

- CHEM 3010 - Organic Chemistry I Credit: 4.
- CHEM 3020 - Organic Chemistry II Credit: 4.
- BIOL 2010 - Human Anatomy and Physiology I Credit: 4.
- BIOL 2020 - Human Anatomy and Physiology II Credit: 4.
- ENGL 2130 - American Literature Credit: 3. or
  ENGL 2230 - British Literature Credit: 3. or
  ENGL 2330 - World Literature Credit: 3.
- PSY 3200 - Developmental Psychology Credit: 3.
- Humanities/Fine Arts Gen Ed Core Credit: 3
- General Education Core or Major Credit: 6.

Total: 31

Junior Year

- BIOL 3810 - General Genetics Credit: 4.
- BIOL 3230 - Health Science Microbiology Credit: 4.
- HEC 4210 - Med Term for Human Services Credit: 3. or
  HIT 1010 - Medical Terminology Credit: 1.
- General Education Core or Major Credit: 19-21.

Total: 30

Notes:
[1] A course in College Algebra (MATH 1130) or higher and a course in Statistics fulfills the math requirements at most PA schools.

Physician Assistant Master's Degree Programs require a Bachelor's degree prior to admission.

The Graduate Record Exam (GRE) must be taken for most PA programs.

Health care experience hours, especially those that require direct patient interaction, are required by most PA programs. Job shadowing with a PA is also highly recommend.

Additional recommended courses for competitive entry into Physician Assistant Programs include: Biochemistry, Cell Biology, Immunology, Embryology, Parasitology, Quantitative Analysis, Physics, Human Sexuality, Technical Writing, Advanced Psychology, and other advanced Biology and Chemistry Courses.

Motion. Dr. Boles moved to approve the addition effective Fall 2013. The motion was seconded by Dr. Stein.

Course Change:
FROM:
CHEM 1000. Foundations of Chemistry. Lec. 3. Credit 3.
An introductory course for students without sufficient high school background in chemistry. Topics include metric system, atomic structure, bonding, stoichiometry, solutions and some descriptive chemistry. Not degree credit as Chemistry course. May be used for elective credit in some programs.

TO:
CHEM 1000. Foundations of Chemistry. Lec. 3. Credit 3.
An introductory course for students without sufficient high school background in chemistry. Topics include metric system, atomic structure, bonding, stoichiometry, solutions and some descriptive chemistry. Not degree credit as Chemistry course. May be used for elective credit in some programs. Students may not register for this course if they have credit for any other college Chemistry course. May not be taken concurrently with any Chemistry course***, excluding CHEM 1500.***

Motion. Dr. Boles moved to approve the change effective Fall 2013. The motion was seconded by Dr. Robinson.

Dr. Eisen made a friendly amendment to add "excluding CHEM 1500" (as shown in italics) to the last sentence. The friendly amendment was accepted by Dr. Boles and the seconder.

A vote was taken and the motion carried.

19. Approval of Course Addition and Changes from the Department of History
In a two memorandums dated January 29, 2013 approval was requested for the following:

Course Addition:

HIST 4420. Public History. Lec. 3. Credit 3.
Prerequisite: HIST 3410. Introduce history majors to possible careers in the field and give students practical, hands-on experience in the field of Public History.

Motion. Dr. Roberts moved to approve the addition effective Fall 2013. The motion was seconded by Dr. Stein and carried.

Course Changes:
From:
History 4230 (5230). Topics in U.S. Economic History. Lec. 3. Credit 3.
Selected topics in U.S. economic history. A student may take HIST 4230 twice, provided the topic is different each time.

To:
History 4230-4239 (5230-5239). Topics in U.S. Economic History. Lec. 3. Credit 3.
Selected topics in U.S. economic history.

From:
History 4330 (5330). Religious Studies. Lec. 3. Credit 3.
Selected topics in religious history. A student may take HIST 4330 twice, provided the topic is different each time.

To:
History 4330-4339 (5330-5339). Religious Studies Lec. 3. Credit 3.
Selected topics in religious history.

From:
History 4350 (5350). Gender Studies. Lec. 3. Credit 3.
Selected topics in gender history. A student may take HIST 4350 twice, provided the topic is different each time.

To:
History 4350-4359 (5350-5359). Gender Studies. Lec 3.Credit 3.
Selected topics in gender history.

From:
History 4360 (5360). U.S. Social History. Lec. 3. Credit 3.
Selected topics in U.S. social history, ranging from the Colonial period to the present. A student may take HIST 4360 twice, provided the topic is different each time.

To:
History 4360-4369 (5360-5369). U.S. Social History. Lec 3.Credit 3.
Selected topics in U.S. social history, from the Colonial period to the present.

From:
History 4390 (5390). Topics in African American Studies. Lec. 3. Credit 3.
Selected topics in African-American History. A student may take HIST 4390 twice, provided the topic is different each time.

To:
History 4390-4399 (5390-5399). Topics in African American Studies. Lec 3.Credit 3.
Selected topics in African American History.

From:
History 4400 (5400). Film Studies. Lab 2.Lec. 2. Credit 3.
Selected topics in the history of film. A student may take HIST 4400 twice, provided the topic is different each time.

To:
History 4400-4409 (5400-5409). Film Studies. Lab 2. Lec 2. Credit 3.
Selected topics in the history of film.

From:
History 4440 (5440). Native American Studies. Lec. 3. Credit 3.
Prerequisite: Consent of the Instructor. Selected topics in Native American History, ranging from the earliest times to the present. A student may take HIST 4440 twice, provided the topic is different each time.

To:
History 4440-4449 (5440-5449). Native American Studies. Lec 3. Credit 3.
Selected topics in Native American History, ranging from the earliest times to the present.

From:
History 4470 (5470). Sports Studies. Lec. 3. Credit 3.
Selected topics in the history of sports. A student may take HIST 4470 twice, provided the topic is different each time.

To:
History 4470-4479 (5470-5479). Religious Studies Lec. 3. Credit 3.
Selected topics in the history of sports.

From:
History 4790 (5790). Latin American Studies. Lec. 3. Credit 3.
Selected topics in Latin American history. A student may take HIST 4790 twice, provided the topic is different each time.

To:
History 4790-4799 (5790-5799) – Latin American Studies Lec. 3. Credit 3.
Selected topics in Latin American history.

From:
History 4900. Topics. Lec. 3. Credit 3.
A formal course in any area where there is no course offering. A student may take HIST 4900 twice, provided the topic is different each time.

To:

History 4900-4909. Topics Lec. 3. Credit 3.
A formal course in any area where there is no course offering.

From:
History 4910. Directed Studies. Credit 1, 2, 3.
Prerequisite: Consent of Instructor. Supervised research and reading in any area where there is no appropriate course offering. May be taken twice, provided the topic is different.

To:
History 4910-4919. Directed Studies. Credit 1, 2, 3.
Prerequisite: Consent of Instructor. Supervised research and reading in any area where there is no appropriate course offering.

From:
History 4990. Senior Seminar. Sem. 3. Credit 3.
Prerequisite: HIST 3410 and junior or senior standing as a history major. Intensive experience in research, writing, and oral presentation of a selected historical topic.May be taken twice as the topic changes every semester.

To:
History 4990-4999. Senior Seminar. Sem. 3. Credit 3.
Prerequisite: HIST 3410 and junior or senior standing as a history major. Intensive experience in research, writing, and oral presentation of a selected historical topic.

Motion. Dr. Roberts moved to approve the changes effective Fall 2013. The motion was seconded by Dr. Boles and carried.

20. Approval of Course Change from Environmental and Sustainability Studies Program
In a memorandum dated February 5, 2013, approval was requested for the following:

Course Change:
From:
ESS 1000. Introduction to Environmental Studies. Lec. 3. Credit 3.
This course is an introductory course to the field of environmental studies. Environmental problems are complex, involving interconnections between people, ecosystems and the biosphere. The solution to these problems requires an understanding of diverse areas of study, including chemistry, biology, ecology, toxicology, hydrology, psychology, sociology, anthropology, economics, ethics, history, law, politics, literature and communication.

To:
ESS 1100. Introduction to Environmental Studies. Lec. 3. Credit 3.
This course is an introductory course to the field of environmental studies. Environmental problems are complex, involving interconnections between people, ecosystems and the biosphere. The solution to these problems requires an understanding of diverse areas of study, including chemistry, biology, ecology, toxicology, hydrology, psychology, sociology, anthropology, economics, ethics, history, law, politics, literature and communication.

Motion. Dr. Talbert moved to approve the change effective Fall 2013. The motion was seconded by Dr. Armstrong and carried.

21. Appointment of Committee to Select Nominee for 2013-34 Chairperson

As appointed by Dr. Gore, the nomination committee for the 2013-14 chairperson will be Dr. Anderson, Dr. Isbell and Dr. Robinson.

22. Other Such Matters

Ms. Winningham shared with the committee the grade point average problem with CAPP due to the University's repeat policy which could not be resolved. DegreeWorks has been purchased and the goal is to have the audit system available Fall Semester for University employees who advise and the system will be available to students Spring 2014. The first catalog to be scribed will be the current Undergraduate Catalog.

Another challenge that was dealt with in programming for CAPP was the programs that have options. Options are not reported and cannot be tracked in Banner. Academic Departments who have options may be requested to supply information on what option a student is following.

The academic departments were encouraged to update program information that is available in the 2013-2014 Undergraduate Catalog.

Approval of Curriculum Changes from the Department of Biology

Curriculum Changes:

Change a requirement for Biology majors in the Biology Health Sciences Concentration, Cellular and Molecular Concentration, and Microbiology Option **from** BIOL 3130 (General Ecology – 4 hrs.) **to** BIOL 3120 (General Ecology – 3 hrs.) or BIOL 3130 (General Ecology – 4 hrs.).

Motion. Dr. Cook moved to approve the change effective Fall 2013. The motion was seconded by Dr. Eisen and carried.

The meeting adjourned at 4:15.