

University Curriculum Committee
March 20, 2014

The University Curriculum Committee met Thursday, March 20 at 3:00 p.m. in the Provost's Conference Room, Derryberry Hall, Room 200.

Members present:

Dr. Melinda Anderson	Dr. Linda Null
Dr. Curtis Armstrong	Dr. Richard Rand
Dr. Julie Baker	Dr. James Raymondo
Dr. Rita Barnes	Dr. Jeff Roberts
Dr. Jeff Boles	Dr. Joe Roberts
Dr. Kristine Craven	Dr. Stephen Robinson
Mr. Ward Doubet	Dr. Liz Mullens
Ms. Edith Duvier	Dr. Mark Stephens
Dr. Kurt Eisen	Dr. Doug Talbert
Dr. Steve Frye	Dr. Jeremy Wendt
Ms. Julie Galloway	Ms. Janet Whiteaker
Dr. Bahman Ghorashi	Dr. Ken Wiant
Dr. Mark Groundland	Dr. Brenda Wilson
Dr. Steve Isbell	Ms. Jerri Winningham
Dr. Wayne Johnson	Ms. Andrea Shook
Dr. Roy Loutzenheiser	Ms. Peyton Miller
Dr. Allan Mills	

Members absent:

Mr. Jeff Adams	Dr. Paul Semmes
Dr. Pedro Arce	Dr. Jennifer Shank
Dr. Doug Bates	Mr. Steve Smith
LTC Dominic Ciaramitaro	Dr. Matt Smith
Dr. Melissa Geist	Ms. Christina Bechard
Dr. Bobby Hodum	Mr. Westlee Walker
Dr. Sharon Huo	Mr. Colin Long
Dr. Joseph Rencis	Ms. Leah Bowman
Ms. Beth Rogers	Ms. Carolyn Huppman

Official representatives:

Dr. Chris Brown for Dr. Cook	Dr. Stephen Click for Dr. Mohr
Dr. Ismail Fidan for Dr. Elsayy	Dr. Corinne Darvennes for Dr. Rao
Dr. Nathan O'Connor for Dr. Faw	Dr. Barbara Jared for Dr. Russell
Dr. Jeannette Wolak for Dr. Harrison	Dr. Zachary Wilcox for Dr. Stein

Guests:

Ms. Denise Burgess	Ms. Rachel Hall
Ms. Elizabeth Boucher	Ms. Brandi Hill
Ms. Ann Marie Carrick	Ms. Demetria Mells

Dr. Melinda Swafford	Ms. Cari Williams
Dr. Stacy Tomas	

SUMMARY OF PROCEEDINGS

1. Approval of agenda as revised
2. Approval of February 13 minutes
3. Approval of course change from the Learning Support Program
4. Approval of course change from the Department of Art
5. Approval of curriculum change from the Department of Earth Sciences
6. Approval of curriculum change from the Department of Mathematics
7. Approval of course changes from the Department of Foreign Languages
8. Approval of course addition and curriculum changes from the Department of History
9. Approval of curriculum changes for Pre-Professional Health Sciences from the Department Of Chemistry
10. Approval of course addition, deletion and curriculum changes from the Department of Chemistry
11. Approval of course deletions from the Department of Electrical and Computer Engineering
12. Approval of course changes from the Department of Mechanical Engineering
13. Approval of course deletions, changes and curriculum changes from the Department of Manufacturing and Engineering Technology
14. Approval of concentration deletion and addition of new concentration from the Department Of Computer Science
15. Approval of course and curriculum changes from the Department of Civil and Environmental Engineering
16. Approval of course additions and catalog changes from the School of Nursing
17. Approval of course addition and changes from the School of Interdisciplinary Studies
18. Approval of course additions and curriculum changes from the Department of Sociology and Political Science
19. Approval of course addition, deletion of concentration and addition of concentration from the Department of Curriculum and Instruction
20. Approval of course additions, deletion, changes and curriculum changes from the School of Human Ecology
21. Approval of course additions, changes and curriculum changes from the School of Agriculture
22. Approval of course additions, deletion, changes and curriculum changes for the Agritourism concentration in the School of Agriculture
23. Approval of course addition from the Department of Economics, Finance, and Marketing
24. Election of 2014-15 Chairperson

PROCEEDINGS

1. Approval of Agenda as Revised

Dr. Anderson requested the following changes to the agenda: Withdraw Item # 3 Catalog Information; insert proposal from Civil and Environmental Engineering as item 16, insert proposal from School of Agriculture (Agritourism) as item 25, insert proposal from Economics, Finance, and Marketing at item 26.

Motion. Dr. Rand moved to approve the agenda as revised. The motion was seconded by Dr. Robinson and carried.

2. Approval of February 13, 2014 minutes

Motion. Dr. Barnes moved to approve the minutes as submitted. The motion was seconded by Dr. Rand and the motion carried.

3. Approval of Course Change from the Learning Support Program

In a memorandum dated February 20, 2014, approval was requested for the following:

Course Change:

Modification to READ 1100 Learning Support Lab for Writing and Reading

ADD: grading Pass/Fail

Motion. Ms. Whiteaker moved to approve the change effective Summer 2014. The motion was seconded by Dr. Loutzenheiser and carried.

4. Approval of Course Change from the Department of Art

In a memorandum dated March 3, 2014, approval was requested for the following:

Course Change:

From:

ART 2060 35mm Photography Studio 4, Credit 2

Introduction to 35mm camera operation, black and white darkroom techniques, and color slide exposure.

To:

ART 2060 Basic Photography Studio 4, Credit 2

Introduction to the aesthetic principles, history and basic techniques of photography in both digital and film formats, including camera operation and various printing and display options.

Motion. Mr. Doubet moved to approve the change effective Fall 2014. The motion was seconded by Dr. Baker and carried.

5. Approval of Curriculum Changes from the Department of Earth Sciences

In a memorandum dated February 25, 2014, approval was requested for the following:

Curriculum Changes:

Add the course Global Climate Change (GEOG 1100) to the list of Directed Electives for all four of the Geoscience concentrations (GEOG, EGEO, GIS, and GEO).

Motion. Dr. Wolak, representing Dr. Harrison, moved to approve the changes effective immediately. The motion was seconded by Dr. Eisen and carried.

6. Approval of Curriculum Change from the Department of Mathematics

In a memorandum dated February 25, 2014, approval was requested for the following:

Curriculum Change:

From:

Requiring at least one of the following two courses:

MATH 2120 Differential Equations Credit 3 OR

MATH 3810 Complex Variables Credit 3

To:

Requiring both of the courses and decreasing the credit hours for electives by 3:

MATH 2120 Differential Equations Credit 3

MATH 3810 Complex Variables Credit 3

Motion. Dr. Mills moved to approve the change effective Fall 2014. The motion was seconded by Dr. Jeff Roberts and carried.

7. Approval of Course Changes from the Department of Foreign Languages

In a memorandum dated February 19, 2014, approval was requested for the following:

Course Changes:

SPAN 1015—Spanish for Health Services

Change in course description:

Delete: Students may not enroll if they have already received credit for a Spanish course or if they already have native-like fluency in Spanish.

Add: *Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.*

SPAN 1010—Elementary Spanish I

Change in course description:

Delete: Students may not enroll if they have already received credit for a Spanish course or if they already have native-like fluency in Spanish.

Add: *Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.*

Catalog Descriptions:

FROM: SPAN 1015 - Spanish for Health Services Lec. 3. Credit 3.

Course restricted to Nursing majors (Special permission is needed from instructor for all other majors.). Spanish language instruction for students entering the medical fields. They will learn the Spanish language—development of oral, reading, writing, and listening communication skills—and knowledge of Hispanic culture necessary to be able to communicate with their future Hispanic patients efficiently and effectively. Students may not enroll if they have already received credit for a Spanish course or if they already have native-like fluency in Spanish.

TO: SPAN 1015 - Spanish for Health Services Lec. 3. Credit 3.

Course restricted to Nursing majors (Special permission is needed from instructor for all other majors.). Spanish language instruction for students entering the medical fields. They will learn the Spanish language—development of oral, reading, writing, and listening communication skills—and knowledge of Hispanic culture necessary to be able to communicate with their future Hispanic patients efficiently and effectively. ***Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.***

FROM: SPAN 1010 - Elementary Spanish I Lec. 3. Credit 3.

Essentials of Spanish, developing listening and reading comprehension, oral and written communication, and cultural understanding.

TO: SPAN 1010 - Elementary Spanish I Lec. 3. Credit 3.

Essentials of Spanish, developing listening and reading comprehension, oral and written communication, and cultural understanding. ***Students may enroll in SPAN 1010 or SPAN 1015, but not both. Native speakers of Spanish may not take this course.***

Motion. Dr. Groundland moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Raymondo and carried.

8. Approval of Course Addition and Curriculum Changes from the Department of History

In memorandums dated February 17 and February 26, 2014, approval was requested for the following:

Course Addition: (February 17 memo)

HIST 4665/5665 World War I Lec. 3, Credit 3

Prerequisite: None. Considers World War I and its consequences within the political, social, and cultural contexts of European development since 1871.

Motion. Dr. Jeff Roberts moved to approve the addition effective Fall 2014. The motion was seconded by Dr. Mills and carried.

Curriculum Changes: (February 26 memo)

Changes in B.S. Degree requirements.

From:

Foreign Language any course (2-3) credits or Math 1910.

To:

Foreign Language any course (2-3) credits*

Note 1 – Math 1910 may substitute for this requirement

From:

Foreign Language any course (3) credits or Math 1920.

To:

Foreign Language any course (3) credits*

Note 2 – Math 1920 may substitute for this requirement

From:

Foreign Language 1020, 2010, or 2020, or Math 2110.

To:

Foreign Language 1020, 2010, or 2020*

Note 6 – Math 2110 may substitute for this requirement

Motion. Dr. Jeff Roberts moved to approve the changes effective Fall 2015. The motion was seconded by Dr. Groundland and carried.

9. Approval of Pre-Professional Health Sciences Curriculum Changes from the Department of Chemistry

In a memorandum dated February 27, 2014, approval was requested for the following:

Curriculum Changes:

A. Pre-Medicine

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

B. Pre-Pharmacy

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Add "or MATH 1830 Concepts of Calculus (3 cr)" to the existing MATH 1910 Calculus I (4 cr) option.

Add Footnote 1 regarding calculus options.

Adjust Total Credits from (30 cr) to (29-30 cr).

Replace Elective credits (9 cr) with Humanities/Fine Arts (3 cr) and Social/Behavioral Science credits (6 cr).

Remove BIOL 4040 Immunology (3 cr).

Adjust Elective Credits from (3 cr) to (6 cr).

C. Pre-Dentistry

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Replace Biology elective (4 cr) with BIOL 3230 Health Science Microbiology (4 cr)

D. Pre-Optometry

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Remove CHEM 3005 Elementary Organic Chemistry (4 cr) and CHEM 4500 Physiological Chemistry (3 cr).
Replace with CHEM 3010 Organic Chemistry I (4 cr) and CHEM 3020 Organic Chemistry II (4cr)

Add CHEM 4610 General Biochemistry (3 cr).

Remove Elective Credit (3cr)

Remove Foot note 2.

E. Pre-Physician Assistant

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

F. Pre-Physical Therapy

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Remove CSC 1100 Introduction to Computing (3 cr).

Add EXPW 4440 Physiology of Exercise (3 cr).

Remove senior year and all comments under senior year.

Remove Footnote 3.

G. Pre-Occupational Therapy

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Remove (Humanities - 3 cr). Keep electives at 6 cr.

Remove CSC 1100 Introduction to Computing (3 cr).

Remove Social/Behavioral Science elective (3 cr).

Add HEC 4210 Medical Terminology for the Human Sciences (1 cr) or HIT 1010 Medical Terminology (3 cr).

Adjust electives credit from (18 cr) to (21-23 cr).

Remove note: "A course in medical terminology is needed for admission into professional school (an on-line course is acceptable.)"

Remove note: "See pre-professional advisor for specific requirements for each professional school in Tennessee."

H. Pre-Dental Hygiene

Replace BIOL 1114 Zoology (4 cr) with BIOL 1105 Foundations of Biology (4 cr).

Add HEC 2020 Nutrition (3cr).

Adjust Elective Credits from (6 cr) to (3 cr).

I. Pre-Medical Technology

Replace BIOL 1115 General Zoology (4 cr) with BIOL 1114 General Zoology (4 cr).

Add PSY 2010 General Psychology (3 cr).

Adjust Elective Credits from (6 cr) to (3 cr).

Add BIOL 3230 Health Science Microbiology (4 cr).

Remove “OR CHEM 3005 Elementary Organic Chemistry (4 cr) or CHEM 4500 Physiological Chemistry option (7cr). Replace with CHEM 3010 Organic Chemistry I (4 cr) and CHEM 3020 Organic Chemistry II (4 cr).

Adjust electives credit to (10 cr).

Add Junior Year ².

Add BIOL 4040 (5040) Immunology (3 cr) ².

Add Electives Credit (27 cr) ^{1,2}.

Add Total Credits: (30 cr)

Add Footnote 2 regarding junior year coursework.

J. Pre-Health Information Management

Add word ‘OR’ between ENGL 2130 and ENGL 2230.

Add SPCH 2410 Introduction to Speech Communication (3 cr).

Add DS 2810 Computer Applications in Business (3 cr).

Remove (Humanities – 3 credits).

Adjust Electives Credit from (15 cr) to (14 cr).

Adjust Total Credits from (29 cr) to (31 cr) under sophomore year.

Add BMGT 3630 Human Resource Management (3 cr).

Add DS 3860 Business Database Management (3 cr).

Add DS 4330 Management Information Systems Analysis and Design (3 cr).

Add HIT 1010 Medical Terminology (3 cr).

Adjust Elective Credits from (24 cr) to (15 cr).

Edit foot note to revise suggested electives list to read: “Suggested electives include ACCT 2110, FIN 3210, LAW 3810 or 4720, HIST 2010 and 2020, or gen-ed core requirements.”

Motion. Dr. Boles moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Frye and carried.

10. Approval of Course Addition, Deletion and Curriculum Changes from the Department of Chemistry

In three memorandums dated February 20, 2014, approval was requested for the following:

Course Addition and Deletion: (memo from Chemistry and Environmental Studies)

Addition:

ESS 3710 - Chemistry and the Environment. Lec. 3. Lab. 0. Credit 3. Prerequisite: CHEM 1010. Concepts of environmental chemistry that include organic chemistry, polymer chemistry, the chemistry of the earth, water and air, biochemistry, and energy. A grade in ESS 3710 may be accepted as a replacement for a previous grade in CHEM 3710.

Deletion:

CHEM 3710 - Chemistry and the Environment. Spring. Lec. 3. Lab. 0. Credit 3. Prerequisite: CHEM 1010. Concepts of environmental chemistry that include organic chemistry, polymer chemistry, the chemistry of the earth, water and air, biochemistry, and energy. Not for chemistry majors.

Motion. Dr. Boles moved to approve the addition and deletion effective Fall 2014. The motion was seconded by Dr. Eisen and carried.

Curriculum Changes:

From:

CHEM 4980: Distinction In Chemistry Research. **Lec. 0, Credit 0**

Prerequisites: Senior Status and consent of Chemistry Chairman.

Dissemination of independent research conducted with a Chemistry Faculty advisor through participation in meetings (national meetings, state meetings and/or TTU Student Research Day), departmental seminar, and mini-thesis.

To:

CHEM 4980: Distinction In Chemistry Research. **Lec. 0, Credit 1**

Prerequisites: Senior Status and consent of Chemistry Chairman.

Dissemination of independent research conducted with a Chemistry Faculty advisor through participation in meetings (national meetings, state meetings and/or TTU Student Research Day), departmental seminar, and mini-thesis.

Motion. Dr. Boles moved to approve the change effective Fall 2014. The motion was seconded by Dr. Barnes and carried.

Curriculum changes in the Biochemistry (CHMB) concentration

BIOL requirement

From:

BIOL 1115 General Zoology (4 hrs)

To:

BIOL 1114 General Zoology (4 hrs)

Curriculum changes in the Applied Chemistry (CHMN) concentration

BIOL requirement

From:

BIOL 1115 General Zoology (4 hrs)

To:

BIOL 1114 General Zoology (4 hrs)

Social Science change in the Forensic Chemistry option

Delete the statement that General Education Social Science "Should include SOC 1010

Directed Technical Requirements in the Industrial Chemistry option

Delete from the required course list: CSC 1100, MET 1110.

Delete from the optional list: ENGR 1110

Add to the required course list: MET 1100, MET 2000, MET 3730

Add to the optional list: ME 3110, MET 3080

Directed Technical Requirements in the Environmental Chemistry option

Delete from the required list: BIOL 3130

Add to the required list: BIOL 3120

Delete from the optional course list: GEOL 4100.

Add to the optional list: GEOG 4510.

Motion. Dr. Boles moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Raymondo and carried.

11. Approval of Course Deletions from the Department of Electrical and Computer Engineering

In a memorandum dated March 6, 2014, approval was requested for the following:

Course Deletions:

ECE 3320 Digital Electronics

ECE 4570 Intro. To Gaseous Electronics

ECE 4810 Alternative Energy: Nuclear Energy

ECE 4820 Alternative Energy: Renewable Energy Systems

Motion. Dr. Johnson moved to approve the deletions effective Fall 2014. The motion was seconded by Dr. Mills and carried.

12. Approval of Course Changes from the Department of Mechanical Engineering

In a memorandum received March 12, 2014, approval was requested for the following:

Course Changes:

ME 2330 - Dynamics

Lec. 3. Credit 3. Prerequisite: [CEE 2110](#) and [PHYS 2110](#).

From: Particle Kinematics; relative motion; kinetics, applications of Newton's Laws, work-energy principle, impulse-momentum principle, vibrations.

To: Kinematics; relative motion; kinetics, applications of Newton's Laws, work-energy principle, impulse-momentum principle, vibrations.

ME 3010 Materials and Processes in Manufacturing

Lec. 3. Credit 3. Prerequisite: [CEE 3110](#), [CHEM 1010](#) or [CHEM 1110](#).

From: Property/microstructure interrelations and design considerations for engineering materials; overview of manufacturing processes; interrelations among materials, design and manufacturing; and introduction to failure criteria and material selection. [CEE 3110](#) may be taken concurrently.

To: Processing/microstructure/property interrelations; heat treatment of steels and alloys; overview of manufacturing processes; interrelations among materials, design and manufacturing; and introduction to material selection. [CEE 3110](#) may be taken concurrently.

ME 3050 - Dynamic Modeling and Controls

Lec. 3. Credit 3. Prerequisite: [MATH 2120](#), [ME 2330](#) [ME 3023](#), and [ME 3001](#) (ME 3001 may be taken concurrently). Corequisite: [ME 3060](#).

From: Modeling and simulation of lumped parameter mechanical, electrical, thermal, fluid, and mixed systems, control algorithms, stability, transient response and frequency response.

To: Modeling and simulation of lumped parameter systems, mechanical, electrical, thermal, fluid, and/or mixed; stability; time and frequency response; vibration applications; control algorithms.

ME 3060 - Dynamic Modeling and Controls Laboratory

Lab. 2. Credit 1. Corequisite: [ME 3050](#).

From: Experiments and simulations of lumped parameter mechanical, electrical, thermal, fluid, and mixed systems, control algorithms, stability, transient response, and frequency response.

To: Experiments and simulations of lumped parameter mechanical systems; time and frequency response; vibration applications; control algorithms.

ME 3220 - Thermodynamics II

Lec. 3. Credit 3. Prerequisite: [ME 3210](#).

From: Gas power and refrigeration cycles, equations of state and general thermodynamic relations, ideal-gas mixtures, properties of gaseous mixtures, combustion and chemical equilibrium.

To: Gas power and refrigeration cycles; exergy analysis; real and ideal gas mixtures; combustion and chemical equilibrium.

ME 4010 - Machine Design

Lec. 3. Credit 3. Prerequisite: [CEE 3110](#), [ME 3010](#) and [ME 3610](#).

From: Tools of machine design; stress strain and deformation of machine parts; inherent properties of machine parts; design of machine parts for strength; design of machine parts for rigidity; and introduction to finite element analysis. [ME 3610](#) may be taken concurrently.

To: Tools of machine design; stress strain and deformation of machine parts; inherent properties of machine parts; design of machine parts for strength; design of machine parts for rigidity. [ME 3610](#) may be taken concurrently.

ME 4020 (5020) - Applied Machine Design

Lec. 2. Lab. 2. Credit 3. Prerequisite: [ME 4010](#).

From: Design for strength and rigidity under dynamic loads; shaft 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.

To: 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.

ME 4210 - Refrigeration and Air Conditioning

Lec. 3. Credit 3. Prerequisite: [ME 3220](#), [ME 3710](#), and [ME 3720](#).

From: Refrigeration systems with emphasis on the vapor-compression cycle, air-conditioning systems, principles of psychrometrics, human comfort, and principles for building load calculations.

To: 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.

ME 4220 - Air Conditioning Design

Lec. 3. Credit 3.

From: Prerequisite: [ME 4210](#). Design of heating, cooling and ventilation systems for buildings. Duct system design, pipe system layout, and equipment selection.

To: Prerequisites: ME 3220, ME 3710, ME 3720. Design of heating, cooling and ventilating systems for buildings. Duct system design, pipe system layout and equipment selection.

ME 4260 (5260) - Energy Conversion and Conservation

Lec. 3. Credit 3. Prerequisite: [ME 3220](#), [ME 3710](#), or equivalent.

From: Energy conversion and conservation techniques used in industrial applications; energy audits, heat loss considerations, and energy measurements.

To: An in-depth study of industrial steam, pumping and compressed air systems in terms of how to reduce system energy consumption.

ME 4310 (5310) - Gas Dynamics

Lec. 3. Credit 3. Prerequisite: [ME 3220](#) and [ME 3720](#).

From: Fundamental motions, shock waves, flow through ducts and nozzles, unsteady wave motion, linearized flows, and method of characteristics.

To: Balance laws, shock waves, Prandtl/Meyer expansion, flow through ducts and nozzles, unsteady wave motion, linearized supersonic thin airfoil theory.

ME 4444 - Senior Design Project

Lec. 2. Lab. 4. Credit 4.

Prerequisite: [ME 3050](#), [ME 3060](#), [ME 3900](#), [ME 4751](#); and [ME 4020 \(5020\)](#) as a prerequisite with [ME 4720](#) as a corequisite, or [ME 4720](#) as a prerequisite with [ME 4020 \(5020\)](#) as a corequisite.

From: Capstone group design project in mechanical engineering with FE exam review.

To: Capstone group design project in mechanical engineering.

ME 4460 (5460) – Mechanical Properties of Materials

Lec. 3. Credit 3. Prerequisite: [CEE 3110](#), [ME 3010](#), or consent of instructor.

From: Elastic and anelastic properties, edge and screw dislocations, slip planes, plastic deformation, and properties of ceramics and polymers.

To: Elastic and anelastic properties, dislocations, slip, plastic deformation, fracture mechanics, creep, fatigue and fatigue crack propagation, materials testing, and introduction to failure analysis.

ME 4480 (5480) - Microstructural Analysis

Lec. 2. Lab. 2. Credit 3. Prerequisite: [ME 4460 \(5460\)](#).

From: Techniques and applications of microstructural analysis; reflected light microscopy; metallography; electron microscopy; and fractography and failure analysis.

To: Techniques and applications of microstructural analysis; optical microscopy; metallography; electron microscopy; and fractography and failure analysis.

ME 4510 (5510) - Aerodynamics

Lec. 3. Credit 3. Prerequisite: [ME 3720](#).

From: Fundamental principles and equations, thin airfoil theory, finite wings, wings in compressible flow, and aerodynamic drag.

To: Atmospheric fluid statics, ideal fluid dynamics, potential flow, lift and drag estimation, powered flight, glides, takeoffs, landings.

ME 4610 - Steam Power Plants

Lec. 3. Credit 3. Prerequisite: [ME 3220](#), [ME 3710](#), and [ME 3720](#).

From: Fuels, coal properties, firing methods, boilers and other heat exchangers, turbine characteristics, cooling water and towers, dust collection, new developments, and plant trip.

To: Energy sources, Fuels, firing methods, boilers, turbine characteristics, cooling water and cooling towers, dust collection, new developments in energy generation, plant trip.

ME 4620 (5620) - Turbomachinery

Lec. 3. Credit 3. Prerequisite: [ME 3720](#).

From: Presents a generalized description and unified theory of the design and operation of rotating machinery in which energy transfer occurs due to velocity changes; design methods for various types of turbomachines –pumps, fans, compressors, and turbines.

To: Presents a generalized description and unified theory pertaining to the classification, operation, selection and basic design of rotating turbomachines - pumps, fans, compressors, and turbines; topics of current interest.

ME 4930 (5930) - Noise Control Cross-listing: [CEE 4930 \(5930\)](#)

Lec. 2. Lab. 2. Credit 3. Prerequisite: [MATH 2120](#) and [PHYS 2110](#).

From: Identification and description of noise sources and noise radiation, methods of noise measurement and criteria for noise levels, principles, and techniques of noise control.

To: Identification and description of noise sources and noise radiation, methods of noise measurement and criteria for noise levels, principles and techniques of noise control.

Motion. Dr. Darvennes, representing Dr. Rao, moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Robinson and carried.

13. Approval of Course Deletion, Changes and Curriculum Changes from the Department of Manufacturing and Engineering Technology

In a memorandum dated February 26, 2014, approval was requested for the following:

Course Deletion:

MET 4610 Engineering Technology Seminar Lec. 1, Credit 1

Course Changes:

FROM:

MET 1100 - Introduction to Manufacturing Engineering Technology Lec. 1. Lab. 2. Credit 2.

Introduction to the materials and processes used in the manufacturing of metals, ceramics, polymers, and wood products.

TO:

MET 1100 - Introduction to Manufacturing Engineering Technology Lec. 1. Lab. 2. Credit 2.

Introduction to the materials and processes used in the manufacturing of metals, ceramics, polymers, **composites** and wood products.

FROM:

MET 1835 - Applications of Math in Engineering Technology Lab - Lab. 2. Credit 1.

Prerequisite: MATH 1830, ENGR 1120. Use of integral and differential calculus with numerical applications for engineering technology.

TO:

MET 1835 - Applications of Math in Engineering Technology Lab - Lab. 2. Credit 1.

Prerequisite: **MATH 1910**, ENGR 1120. Use of integral and differential calculus with numerical applications for engineering technology.

FROM:

MET 3000 - Principles of Metal Casting Lec 1. Lab 2. Credit 2.

Prerequisite: ENGR 1110, MET 1100, and ME 3110. Principles of molding and casting aluminum, brass and gray iron. Use of cores, patterns and machine molding included.

TO:

MET 3000 - Principles of Metal Casting Lec 1. Lab 2. Credit 2.

Prerequisite: ENGR 1110, MET 1100, and ME 3110. Principles of molding and casting aluminum, bronze and gray iron. Use of cores, patterns and machine molding included.

FROM:

MET 3060 - Computer Numerical Control Machining Practices Lec. 1. Lab. 4. Credit 3. Prerequisite: ENGR 1120 and MET 2063. Theory of numerical control equipment and programming for machine setup and operation of CNC equipment.

TO:

MET 3060 - Computer Numerical Control Machining Practices **Lec. 2. Lab 2. Credit 3**. Prerequisite: ENGR 1120 and MET 2063. Theory of numerical control equipment and programming for machine setup and operation of CNC **milling and turning** equipment.

FROM:

MET 3403 - Applied Machine Elements Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 2400, MET 3301, ME 3110, PHYS 2010. Static and dynamic properties of materials. Principles of machine elements calculations, components selection, assembly, and lubrication.

TO:

MET 3403 - Applied Machine Elements Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 2400, MET 3301, ME 3110, **PHYS 2010**. Static and dynamic properties of materials. Principles of machine elements calculations, components selection, assembly, and lubrication.

FROM:

MET 3700 - Manufacturing Cost Estimating Lec. 2. Credit 2.

This is an experiential learning course where the students participate in solving an industrial problem. This course requires the application of computer-aided design, bill of materials, manufacturing processes, process design, writing a report, and presentation of the results.

TO:

MET 3700 - Manufacturing Cost Estimating Lec. 2. Credit 2.

Prerequisite: Junior standing, MET 1100. This is an experiential learning course where the students participate in solving an industrial problem. This course requires the application of computer-aided design, bill of materials, manufacturing processes, process design, writing a report, and presentation of the results.

FROM:

MET 4060/5060 - CNC Concepts, Advanced Techniques & Applications Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3060. 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.

TO:

MET 4060/5060 - CNC Concepts, Advanced Techniques & Applications Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3060 **or consent of instructor**. 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.

FROM:

MET 4200 (5200) - Industrial Electronics Lec. 2. Lab. 2. Credit 3. Prerequisite: MET 3200. The fundamentals of process control, transducers, signal processing, feedback loops, activators, and analog and digital controllers. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

TO:

MET 4200 (5200) - Industrial Electronics Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3200 **or consent of instructor**. The fundamentals of process control, transducers, signal processing, feedback loops, activators, and analog and digital controllers. Students enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

FROM:

MET 4210 (5210) - Programmable Logic Controllers and Process Control Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 4200 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.

TO:

MET 4210 (5210) - Programmable Logic Controllers and Process Control Lec. 2. Lab. 2. Credit 3.

Prerequisite: **MET 4200 (5200) or consent of instructor**. 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.

FROM:

MET 4220 (5220) - Industrial Automation and Robotics Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3060. 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.

TO:

MET 4220 (5220) - Industrial Automation and Robotics Lec. 2. Lab. 2. Credit 3.

Prerequisite: **MET 3060, MET3200 or consent of instructor**. 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.

FROM:

MET 4300 (5300) - Advanced Cad Techniques Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301. 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.

TO:

MET 4300 (5300) - Advanced Cad Techniques Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301 **or consent of instructor**. 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.

FROM:

MET 4310 (5310) - Plant Layout and Materials Handling Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301, MET 3710. 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.

TO:

MET 4310 (5310) - Plant Layout and Materials Handling Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301, ~~MET 3710~~ **or consent of instructor**. 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.

FROM:

MET 4400 (5400) - Geometric Dimensioning and Tolerancing Lec. 2. Lab. 2. Credit 3. Prerequisite: ENGR 1110, MET 3301. This course will cover the geometric conformance and tolerancing theory and application pertaining to ANSI/ASME Y14.5M-1994 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.

TO:

MET 4400 (5400) - Geometric Dimensioning and Tolerancing Lec. 2. Lab. 2. Credit 3. Prerequisite: ~~ENGR 1110~~, MET 3301 **or consent of instructor**. This course will cover the geometric conformance and tolerancing theory and application pertaining to ANSI/ASME Y14.5M-1994 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.

FROM:

MET 4430 (5430) - Industrial Supervision Lec. 3. Credit 3.

Prerequisite: Senior standing. 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.

TO:

MET 4430 (5430) - Industrial Supervision Lec. 3. Credit 3.

Prerequisite: Senior **or graduate** standing. 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.

FROM:

MET 4450 (5450) - Rapid Prototyping Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301 **or consent of instructor**. 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.

TO:

MET 4450 (5450) - Rapid Prototyping Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3301. 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.

FROM:

MET 4500 (5500) - Tool Design Lec. 2. Lab. 2. Credit 3. Prerequisite: MET 2063, MET 3301. 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.

TO:

MET 4500 (5500) - Tool Design Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 2063, MET 3301 **or consent of instructor**. 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.

FROM:

MET 4620 - Senior Projects Lec. 2. Lab. 2. Credit 3. Prerequisite: MET 3403, MET 4200. This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving an industrial problem. It requires the application of design, manufacturing processing, project management plan and public presentation of results.

TO:

MET 4620 - Senior Projects Lec. 2. Lab. 2. Credit 3.

Prerequisite: MET 3403, MET 4200 **or consent of instructor**. This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving an industrial problem. It requires the application of design, manufacturing processing, project management plan and public presentation of results.

FROM:

MET 4990 - Special Problems Lec. 1. Lab. 4. Credit 3.

Prerequisite: Senior standing. 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.

TO:

MET 4990 - Special Problems **Lec. 2. Lab. 2. Credit 3.**

Prerequisite: Senior standing. 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.

Curriculum Changes:

FROM:

BS in Engineering Technology with Emphasis in Technology Management

TO:

BS in Engineering Technology with Emphasis in Engineering Technology Management

Changes requested in the BS in Engineering Technology with emphasis in Manufacturing Engineering Technology:

Drop MET 4430 and

Add MET 4550, MET 4600 and MET 4650

Changes requested in the BS in Engineering Technology with emphasis in Technology Management

Add MET 4010 and MET 4430.

Motion. Dr. Fidan, representing Dr. Elsayy, moved to approve the changes effective Summer 2014. The motion was seconded by Dr. Loutzeheiser and carried.

14. Approval of Deletion of Concentration and Addition of New Concentration from the Department of Computer Science

In a memorandum dated March 5, 2014, approval was requested for the following:

Deletion of Concentration:

Computer Science and Information Technology (CSIT)

Effective: Fall 2015

New Concentration Addition:

Computer Science in Cyber-Security (CSEC)

Effective: Spring 2015

Note: Curriculum and TBR forms on file in Office of Associate Provost.

Motion. Dr. Talbert moved to approve the changes. The motion was seconded by Dr. Raymondo and carried.

15. Approval of Course and Curriculum Changes from the Department of Civil & Environmental Engineering

In a memorandum dated March 12, 2014, approval was requested for the following:

Course Changes:

FROM:

CEE 2110 - Statics

Lec. 3. Credit 3.

Prerequisite: [MATH 1920](#) and [PHYS 2110](#) (PHYS 2110 may be taken concurrently). Vector algebra, resultants, equilibrium, friction, centroids, moment of inertia, trusses, machines and frames, beam shear and moments.

TO:

CEE 2110 - Statics

Lec. 3. Credit 3.

Prerequisite: [PHYS 2110](#) (PHYS 2110 may be taken concurrently); C or better in [MATH 1920](#). Vector algebra, resultants, equilibrium, friction, centroids, moment of inertia, trusses, machines and frames, beam shear and moments.

Justification: Students receiving a D in MATH 1920 are not mathematically prepared for CEE 2110, which is a fundamental engineering course in the CEE curriculum. A "C or better in MATH 1920" is required for subsequent MATH courses in the CEE curriculum.

Impact on Faculty: NONE

Financial Impact: NONE

Effective Date: Fall 2014

1. Prerequisite Change

The CEE department requests the following prerequisite change:

FROM:

CEE 3110 - Mechanics of Materials

Lec. 3. Credit 3.

Prerequisite: [CEE 2110](#). Stress, strain, Hooke's law, extension, torsion, and bending; beam deflections, column buckling, and combined stresses.

TO:

CEE 3110 - Mechanics of Materials

Lec. 3. Credit 3.

Prerequisite: C or better in [CEE 2110](#). Stress, strain, Hooke's law, extension, torsion, and bending; beam deflections, column buckling, and combined stresses.

Impact on Faculty: NONE

Financial Impact: NONE

Effective Date: Fall 2014

2. Prerequisite Change

The CEE department requests the following prerequisite change:

FROM:

CEE 4950 - Senior Design Project

Lab. 6. Credit 3.

Prerequisite: Senior standing. Comprehensive design project of civil engineering projects using a team approach.

TO:

CEE 4950 - Senior Design Project

Lab. 6. Credit 3.

Prerequisite: Consent of instructor. Comprehensive design project of civil engineering projects using a team approach.

Curriculum Changes:

The CEE department requests a change in Technical Electives from ECE 3810 Fundamentals of Electrical Engineering only to ECE 3810 or ECE 2010 Electrical Circuits I.

Junior Year

- CEE 3020 - Surveying Credit: 3.
- CEE 3030 - Civil Engineering Materials Credit: 3.
- CEE 3320 - Structural Mechanics Credit: 3.
- CEE 3413 - Environmental Engineering Credit: 3.
- CEE 3420 - Hydraulics Credit: 3.
- CEE 3610 - Transportation Engineering Credit: 3.
- CEE 4310 - Structural Steel Design Credit: 3.

- CEE 3720 - Engineering Statistics Credit: 2. or
- MATH 3470 - Introductory Probability and Statistics Credit: 3.

- ME 3720 - Fluid Mechanics Credit: 3.

- ECE 3810 - Fundamentals of Electrical Engineering Credit: 3. Or
- ECE 2010 - Electrical Circuits I Credit: 3. or
- ME 3210 - Thermodynamics I Credit: 3. or
- CHE 3010 - Thermodynamics of Chemical Processes Credit: 3

- Approved CEE lab elective Credit 1. ⁶
- MATH Elective Credit 3. ³

Motion. Dr. Click, representing Dr. Mohr, moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Loutzenheiser and carried.

16. Approval of Course Additions and Catalog Changes from the School of Nursing

In memorandums dated February 28 and March 12, 2014, approval was requested for the following:

Course Additions: (Feb 28 memo)

NURS 3040 Collaborative Care: Nurses' Role in the Health Care Team Lec. 3, Credit 3

This course examines the role of the interdisciplinary health care team to make a difference in the lives of patients. It prepares the student to contribute in significant ways to safe and effective care within a multidisciplinary team.

NURS 3050 Pediatric Illnesses and Related Care (On-Line Course) Lec. 1, Credit 1

This course provides a study of the more common illnesses of the pediatric population requiring inpatient treatment.

Catalog Changes: (March 12 memo)

The following changes are needed, effective with the 2014-2015 Undergraduate Catalog:

BSN Curriculum Footnote Revision

From:

Footnote #2: Three hours of electives may be obtained through successful completion of 1 three hour nursing elective or other electives substituted by special permission of the Nursing School.

To:

Footnote #2: A total of 3 hours of electives to be approved and substituted by the School of Nursing.

BSN Curriculum Footnote Addition

Footnote#3: Students who require readmission to the nursing program after an unsuccessful semester will be required to take NURS 4990, a special topics course focused on testing remediation and study habits.

Motion. Dr. Jared, representing Dr. Russell, moved to approve the changes effective Fall 2014. The motion was seconded by Ms. Galloway and carried.

17. Approval of Course Addition and Changes from the School of Interdisciplinary Studies

In a memorandum dated March 15, 2014, approval was requested for the following:

Course Addition:

LIST 2010 Introduction to Religious Studies Lec. 3, Credit 3

Introduction to the academic study of religion and the field of Religious Studies. Students will explore basic questions related to religion in a cultural, historical and personal context. In addition, the course will offer an overview of five major world religions: Buddhism, Christianity, Hinduism, Islam, and Judaism.

Course Changes:

LIST 4091, 4092, and 4093 – Special Topics

Change in course description: Remove prerequisite and consent of advisor and Dean. Add: May be repeated if topic is different. No more than 9 hours of LIST 4091, 4092, and 4093 may be used for degree.

LIST 4850: Special Topics in Organizational Leadership

Change in course description: Remove consent of instructor. Add: May be repeated if topic is different. No more than nine hours of LIST 4850 may be used for degree.

From: LIST 4091 – Special Topics Credit 1, 2, 3.

Prerequisite: Senior standing. Consent of advisor and Dean of Interdisciplinary Studies. Upper division

level study in a specific topic not commonly found in a discipline on campus, not to include work experience.

To: LIST 4091 – Special Topics Credit 1, 2, 3, Lec. 1 - 3.

Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than a combined total of nine hours of LIST 4091, 4092, and 4093 may be used for degree.

From: LIST 4092 – Special Topics Credit 1, 2, 3.

Prerequisite: Senior standing. Consent of advisor and Dean of Interdisciplinary Studies. Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience.

To: LIST 4092 – Special Topics Credit 1, 2, 3, Lec. 1 - 3.

Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than a combined total of nine hours of LIST 4091, 4092, and 4093 may be used for degree.

From: LIST 4093 – Special Topics Credit 1, 2, 3.

Prerequisite: Senior standing. Consent of advisor and Dean of Interdisciplinary Studies. Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience.

To: LIST 4093 – Special Topics Credit 3, Lec. 1 - 3.

Upper division level study in a specific topic not commonly found in a discipline on campus, not to include work experience. May be repeated if topic is different. No more than a combined total of 9 hours of LIST 4091, 4092, and 4093 may be used for degree.

From: LIST 4850 – Special Topics in Organizational Development Credit 3.

Consent of faculty; concentration on a topic in Organization Development. May be repeated with different topics. No more than nine hours of special topics may be used for degree.

To: LIST 4850 – Special Topics in Organizational Development Credit 3, Lec. 3.

Concentration on a topic in Organization Development. May be repeated with different topics. No more than a total of nine hours of LIST 4850 may be used for degree.

Motion. Dr. Frye moved to approve the changes. The motion was seconded by Dr. Eisen and carried.

18. Approval of Course Additions and Curriculum Changes from the Department of Sociology and Political Science

In two memorandums dated February 17, 2014, approval was requested for the following:

Course Additions:

CJ/SOC 3640 Cybercrime Lec. 3. Credit 3.

Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides a broad introduction into the world of cybercrime. Cybercrime includes various forms of criminal activity and is broadly defined as the destruction, theft, or unauthorized or illegal use, modification, or copying of information, programs, services, equipment, or communication networks.

Effective: Fall 2014

CJ/SOC 4520 Domestic Violence Lec. 3. Credit 3.

Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course investigates all forms of domestic violence from a sociological perspective including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention.

Effective: Fall 2014

CJ/SOC 4530 Sociology of Murder Lec. 3. Credit 3.

Prerequisite: SOC 1010 or CJ 2660 or consent of the instructor. This course provides an analytical study of murder and violence in the United States. As such, course topics include: different types of homicide, offender characteristics, victim characteristics, etiological considerations of becoming an offender or victim, the role of social profiling in the investigation of various types of murder, theoretical approaches to the study of murder, and patterns and sources of violence. Taking into account the grisly topic, students that are distributed by particularly heinous crimes should avoid enrolling into this course.

Effective: Summer 2014

Motion. Dr. Raymondo moved to approve the additions effective as stated above. The motion was seconded by Dr. Frye and carried.

Curriculum Changes:

From: IRCG Concentration:

Junior Year:

Political Science (9 hours) from:

POLS 4100 or 3610 or 3670 or 3650 or 3200 or 4510

POLS (3 hrs. Upper level)

Senior Year:

Political Science (9 hours) from:

POLS 3100 or 3101 or 3300 or 3310 or 3320 or 3500 or 4220 or 4250 or 4520 or 4920 or 4950 or 4960 or
POLS Special Topics in International or Comparative content

POLS (3 hrs. Upper level)

To: IRCG Concentration:

Junior Year:

Political Science (6 hours) from:

POLS 3200 or 3610 or 3650 or 3670 or 4100 or 4510

POLS (6 hrs. Upper level)

Senior Year:

Political Science (6 hours) from:

POLS 3100 or 3101 or 3300 or 3310 or 3320 or 3500 or 4220 or 4250 or 4520 or 4920 or 4950 or 4960 or
POLS Special Topics in International or Comparative content

POLS (6 hrs. Upper level)

From: IRCG Concentration International Focus Option:

Junior Year:

Political Science (9 hours) from:

POLS 4100 or 3610 or 3670 or 3650 or 3200 or 4510

Political Science (3 hours) from:

POLS 4920 or 4960

POLS (3 hrs. Upper level)

Senior Year:

Political Science (6 hours) from:

POLS 3300 or 3310 or 3320 or 4950 or POLS Special Topics in International or Comparative content

POLS (3 hrs. Upper level)

To: IRCG Concentration International Focus Option:

Junior Year:

Political Science (6 hours) from:

POLS 3200 or 3610 or 3650 or 3670 or 4100 or 4510

POLS (6 hrs. Upper level)

Senior Year:

Political Science (6 hours) from:

POLS 3100 or 3101 or 3300 or 3310 or 3320 or 3500 or 4220 or 4250 or 4520 or 4920 or 4950 or 4960 or
POLS Special Topics in International or Comparative content

POLS (6 hrs. Upper level)

From LS Concentration:

Junior Year:

CJ, LAW, POLS (9 hours) from:

CJ 2850 or CJ 3000 or LAW 3810 or LAW 4720 or POLS 2250 or 3110 or 3120, or 3130, or 3810, or 4700
or POLS Special Projects (in LS) 4911-4919 or LAW 3810 or LAW 4720 or CJ 2850 or CJ 3000

POLS (3 hrs. Upper level)

Senior Year:

Political Science (9 hours) from:

POLS 4100 or 4310 or 4320 or 4730 or 4910

POLS (3 hrs. Upper level)

TO LS Concentration:

Junior Year:

POLS, LAW, CJ (6 hours) from:

POLS 2250 or 3110 or 3120, or 3130, or 3810, or 4700 or POLS Special Projects (in LS) 4911-4919 or LAW 3810 or LAW 4720 or CJ 2850 or CJ 3000

POLS (6 hrs. Upper level)

Senior Year:

Political Science (6 hours) from:

POLS 4100 or 4310 or 4320 or 4730 or 4910 or POLS Special Projects (in LS) 4911-4919

POLS (6 hrs. Upper level)

Motion. Dr. Raymondo moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Talbert and carried.

19. Approval of Course Addition, Deletion of Concentration and Addition of Concentration from the Department of Curriculum and Instruction

In two memorandums dated March 3, 2014, approval was requested for the following:

Course Addition:

CUED 4400/5400 Teaching Methods for Physical Sciences Lec. 3, Credit 3

Prerequisites: Consent of advisor and advanced graduate standing. Content focus in STEM.

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-aligned standards-based instruction.

Motion. Dr. Wendt moved to approve the addition effective Fall 2014. The motion was seconded by Dr. Baker and carried.

Curriculum Changes:

Change in Undergraduate Program of Study for Special Education Modified Program

Deletion:

Program of Study for Special Education Modified Program concentration

Addition:

5 new concentrations and program of study for Special Education Modified program concentration:

1. Program of Study SPED SE Interventionist K-5
2. Program of Study SPED SE Interventionist Biology, grades 6-12
3. Program of Study SPED SE Interventionist English, grades 6-12
4. Program of Study SPED SE Interventionist Social Studies/History, grades 6-12
5. Program of Study SPED SE Interventionist Math, grades 6-12

7. HEC 3660 Interpersonal Relationships

Lec. 3.Cr. 3.

Prerequisite: HEC 2060 or HEC 2065. An in-depth exploration into the diverse and multidisciplinary field of interpersonal relationships.

Effective date: Fall semester 2014

8. HEC 4630 Family Life Education

Lec 3. Cr. 3.

Prerequisites: HEC 2060 or HEC 2065; Junior or Senior Standing in Human Ecology. An understanding of the general philosophy and broad principles of family life education in conjunction with the ability to plan, implement, and evaluate such educational programs.

Justification:

Effective date: Fall semester 2014

Deletions:

HEC 2032 Construction and Analysis of Sewn Products Lec 2. Lab. 4 Cr. 4.

Prereq: HEC 2031 and Human Ecology major of Fine Art Major – Fiber Arts concentration. Construction and analysis of apparel and home furnishing products.

Effective date: Fall semester 2014

Changes:

FROM:

HEC 2060 – The Family System Lec. 2. Cr. 2

The family as a social system. Family-community relationships including partnerships with families of children with special needs.

TO:

HEC 2060 – The Family System Lec. 2 Cr. 2

The family as a social system. Family-community relationships including partnerships with families of children with special needs. HEC 2060 is not a substitute for HEC 2065 – Families in Society. *HEC students must repeat with HEC 2065.*

FROM:

HEME curricula sheet, Junior Year, Electives Credit 3

TO:

HEME curricula sheet, Junior Year, Add HEC 3305 Fashion Forecasting, 2 credits,.

Total Junior year credits = 26

FROM:

HEC 3300 Apparel Design Lec. 1 . Lab 4. Cr. 3.

Prerequisite: HEC 2032. Apparel design from sketching to pattern making to garment completion.

This is a course title change only:

TO:

HEC 3300 Flat Pattern Lec. 1. Lab. 4. Cr. 3

Prerequisite: HEC 2032. Apparel design including sketching, pattern making using the flat pattern method, and garment completion.

Effective date: Fall semester 2014

FROM:

HEME curricula sheet, Freshman Year Credits 31

HEME curricula sheet, Sophomore Year delete HEC 2032 4 credits

Total sophomore year credits: 35

HEME Senior Year Elective Credit 4

TO:

Add HEC 1300 Clothing Construction to Freshman Year, 3 credit

Total Freshman Year Credits: 34

HEME curricula sheet, sophomore year, add HEC 2320 3 credit

Total Sophomore year credits: 34

HEME Senior Year Elective Credit 4, Total Senior Year credits: 26

FROM:

CDFR curricula sheet, Junior Year, HEC Electives Credit 9

Total Credit Hours: 33

TO:

CDFR curricula sheet, Junior Year – replace elective credit with:

HEC 3066 Family Violence Across the Life Span 3 credit

HEC 4065 Social Policy for Children and Families 3 credit

HEC 3660 Interpersonal Relationships 3 credit

Total Credits: 33

FROM:

CDFR curricula sheet, Senior Year, Electives Credit 7

Total credits 29

TO:

Add to Senior Year: HEC 4630 Family Life Education 3 credit

Elective credit: ~~7~~ 6 credits

HEC Electives 3 credits

Total credits: 29 credits

FROM:

For all HEC concentrations, remove HEC 2060 as required course.

TO:

Add new course HEC 2065 Families in Society in place of the HEC 2060 on each HEC concentration curricula sheet. Subsequently, take 1 credit from electives to allow for the addition of the 1 credit with this new course. The specifics are outlined below:

FROM:

HEME curricula sheet, sophomore year, HEC 2060 2 credits, total credits 34

HEME curricula sheet, junior year, elective credit 1, total credits 27

TO:

HEME curricula sheet, sophomore year, HEC 2065 3 credits, total credits 34

HEME curricula sheet, junior year, no elective credits, total credits 26

(adding HEC 2320 in previous item = 34 credits for sophomore year)

FROM:

HEED curricula sheet, sophomore year, HEC 2060 2 credits, total credits 33

HEED curricula sheet, junior year, elective credits 2, total credits 29

TO:

HEED curricula sheet, sophomore year, HEC 2065 3 credits , total credits 33

HEED curricula sheet, junior year, elective credits 1, total credits 28

FROM:

HEHO curricula sheet, sophomore year, HEC 2060 2 credits, total credits 30

HEHO curricula sheet, senior year, electives credits 5, total credits 30

TO:

HEHO curricula sheet, sophomore year, HEC 2065 3 credits, total credits 31

HEHO curricula sheet, senior year, electives credits 3, total credits 29

FROM:

Child Life curricula sheet, sophomore year, HEC 2060 2 credits, total credits 32

Child Life curricula sheet, junior year, electives credit 3, total credits 31

TO:

Child Life curricula sheet, sophomore year, HEC 2065 3 credits, total credits 33

Child Life curricula sheet, junior year, electives credit 2, total credits 30

FROM:

HEFO Dietetics curricula sheet, freshman year, HEC 2060 2 credits, total

Credits 31

TO:

HEFO Dietetics curricula sheet, freshman year, HEC 2065 3 credits, total credits 32

(no electives credit)

FROM:

HEFO Food Systems Administration curricula sheet, freshman year, HEC 2060 2 credits, total credits 30

HEFO Food Systems Administration curricula sheet, junior year, electives credit 6, total credits 31

TO:

HEFO Food Systems Administration curricula sheet, freshman year, HEC 2065 3 credits, total credits 31

HEFO Food Systems Administration curricula sheet, junior year, electives credit 5, total credits 30

FROM:

HEC 4872 Professional Seminar I, Credit 5

Co-requisite: HEC 4871. Seminar for Residency I candidates to develop curriculum, identify effective instructional strategies, and implement appropriate assessment methods to support and meet the needs of all learners.

TO:

HEC 4872 Residency I Seminar. Credit 5.

Co-requisite: HEC 4871, Residency I candidates will develop engaging strategies that support and meet the needs of all learners. Candidates will identify and learn to implement engaging strategies related to students' developmental, cultural and socioeconomic factors.

Effective date: Fall semester 2014

FROM:

HEC 3590 Child Life Clinical Preparation Credit 1.

Corequisite: HEC 3550. Preparation for child life practicum and clinical experience including application deadlines and process, on-site or phone interviews, content areas to discuss, and communicating for success in earning a service learning placement in a pediatric health care setting.

TO:

HEC 3591: Introduction to Child Life Clinical Experience Credit 2.

Co-requisite: HEC 3550. Preparation for child life practicum and clinical experience including application deadlines and process, on-site or phone interviews, content areas to discuss, and communicating for success in earning a service learning placement in a pediatric health care setting. Emphasis on internship and practicum expectations set by Child Life Council.

Effective date: Fall semester 2014

FROM:

Child Life Curricula sheet, junior year, elective credits 2, total credits 31

TO:

Child Life Curricula sheet, junior year, electives credit 1, total credits 30

FROM:

Child Life Curricula sheet, HEC Core section: HEC Core: IF HEC 1030 was taken select 7 hours if HEC 2020 was taken select 6 hours from the following courses.

TO:

Child Life curricula sheet, HEC Core section:
Select 6 hours from the following courses:

Effective date: Fall Semester 2014

ADD TO Child Life Curricula Sheet as a Note in the Notes section:

In order to graduate with the B.S. degree, Human Ecology, concentration Child Life, the following requirement must be completed prior to graduation:

1. Students must be accepted into and successfully complete a child life practicum under the direct supervision of a Certified Child Life Specialist. The practicum course may be taken in the spring or summer semester of the junior year.
2. Students must be accepted into and successfully complete a child life clinical experience (internship) which is supervised by a Certified Child Life Specialist. To pass the clinical experience course, students must earn minimal entry-level competence during the internship experience.

Students who are unsuccessful in securing placement for an appropriate practicum may not continue on in the Child Life concentration. Students who are unsuccessful in securing an appropriate Child Life Internship prior to graduation, may NOT graduate with a degree in Human Ecology, concentration Child Life.

Effective date: immediately

FROM:

HEC 4272 Clinical Dietetics Lec. 3 Cr.3.

Prerequisite: HEC 4200, HEC 4271, HEC major and senior standing. Application of medical nutrition therapy in a supervised environment and practice setting. Preparation for HEC 4994 Field Experience.

TO:

HEC 4272 Clinical Dietetics Lec. 3. Cr. 3

Prerequisite: HEC 4200, HEC 4271, HEC major and senior standing. Application of medical nutrition therapy in a supervised environment and practice setting.

Effective Date: Immediately

FROM:

HEC 4600 Family Development and Relationships Lec 3. Cr. 3

TO:

HEC 4600 Theories in Family Development and Relationships Lec 3. Cr. 3

Effective date: Fall semester 2014

FROM:

HEC 3520 Parenting and Child Guidance Lec 2. Cr. 2

TO:

HEC 3520 Parenting and Child Guidance Lec 2. Cr. 2

Prerequisite: HEC 2200 with a grade of C or better.

Effective date: Fall semester 2014

FROM:

a.

Note 1: The DPD Program uses a self-managed application process into upper-division courses. Students should plan to apply for admission into upper division DPD at the end of the sophomore year. See www.tntech.edu/hec for application details.

b.

In order to become a Registered Dietitian(R.D.) and/or a Licensed Dietitian/Nutritionist (L.D.N) in Tennessee:

1. After graduation, gain acceptance into and complete an accredited post-graduate Dietetic Internship (DI).
2. Pass the Academy of Nutrition and Dietetics Registration Exam

TO:

a.

Note 1. The Dietetics option is part of an accredited Didactic Program in Dietetics (DPD), which requires a mandatory enrollment management policy. A total of **20 students will be enrolled each year at the junior level**, and a total of **20 students will be enrolled each year at the senior level**. Students should plan to apply for admission into upper division dietetics during their sophomore year. See www.tntech.edu/hec for application details.

b.

In order to become a Registered Dietitian/Nutritionist (RDN) and to practice as an RDN, the following steps must be completed:

1. After successful graduation from TTU's DPD program, gain acceptance and complete an accredited supervised practice program (Dietetic Internship).
2. Pass the Academy of Nutrition and Dietetics Registration Exam.
3. Obtain appropriate licensure in the state in which you will practice.

Effective date: Fall semester 2014

FROM:

Note Section for HEC HEED concentration:

1.Student working toward teacher certification must take HEC 4871, HEC 4872, HEC 4881, and HEC 4882 and must complete all requirements for admission to teacher education program. Students seeking non-licensure HEED must take 22 credit hours including: HEC 4000 (1 hour), HEC 4990 (12 hours) and three hours of upper division electives to total nine hours.

TO:

Under the Note section for the HEED concentration page: Add notes 2, 3, 4

1. OK – leave as worded
2. As a sophomore, complete paperwork for admission to Teacher Education Program, and take Praxis I exam or apply for exemption.
3. As a junior, complete Benchmarks and paperwork for Residency I requirements; take Praxis II exam PLT grades 7-12 and FACS content; apply for graduation.
4. Apply for Admission to Residency II.

(note 1 goes with Freshman year, note 2 goes with Sophomore year; Note 3 goes with Junior Year, Note 4 goes with Senior year)

Effective date: immediately

Information Only:

In October 2013, HEC 4210 Medical Terminology for Health Sciences was changed to HEC 2210 Medical Terminology for Health Sciences. However, it was recently discovered that the course number “2210” was already in use for Human Ecology.

HEC 4210 Medical Terminology will now become HEC 2220 Medical Terminology for Health Sciences, 1 credit, and be placed in the Sophomore Year of the HEC – HEFO Dietetics curriculum.

Dr. Swafford , presenting for Dr. Anderson, requested revisions to the course additions: HEC 2065; HEC 3066/5066; HEC 4065/6065; course change HEC 2060; elective credit hours for HEC 4630 senior year. Revisions are typed in *italics* and with strikethroughs in the above proposal.

Motion. Dr. Swafford moved to approve the changes as revised. The motion was seconded by Dr. Raymondo and carried.

21. Approval of Additions, Changes and Curriculum Changes from the School of Agriculture

In memorandums dated March 6 and March 7, 2014, approval was requested for the following:

(March 6 memo)

Course Addition:

AGED 4872: Professional Seminar I (5 hrs)

This course is designed for Residency I candidates to develop engaging strategies that support and meet the needs of all learners. Candidates will identify and learn to implement engaging strategies related to students’ developmental, cultural, and socioeconomic factors.

Effective Date: Fall Semester 2014

AGED 4871: Residency I (5 hrs)

Corequisite: AGED 4872 . 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.

A grade of B is required to meet degree requirements.

Effective Date: Fall Semester 2014

Deletions from AGED Curriculum:

A. EDPY 3300: Evaluation & Guidance (3 hrs)

B. CHEM 1020 (4hrs)

C. Science Elective (3 hrs)

D. General Electives (3 hr)

Effective: Fall Semester 2014

FROM: AGHT 3410- Plant Propagation or AGHT 4410-Nursery Management Or AGHT 4420-Greenhouse Management

TO: AGHT 3410- Plant Propagation

Fall. Lec. 2. Lab. 2. Credit 3.

Prerequisite: AGRN 1100 , AGRN 1110 , BIOL 1114 , or consent of instructor. Asexual and sexual propagation of plants by cuttings, layers, division, special structures, grafting, budding, seeds, and tissue culture.

Additionally, Students will select one of the following two courses to increase their life science credit hours for the agriscience endorsement.

AGHT 4410 - Nursery Management

Spring. (O). Lec. 2. Lab. 2. Credit 3.

Prerequisite: AGHT 3410 . Principles of retail and wholesale nursery site selection, field and container production, and resource management. Students who have not had prerequisite can request permission from the instructor.

(O) and (E) Denote Odd and Even Years RespectivelyClose

OR

AGHT 4420 - Greenhouse Management and Crop Production Spring (E). Lec. 2. Lab. 3. Credit 3.

Prerequisite: AGHT 3410 , AGET 4610 (5610) , or request by advisor. Principles of greenhouse management and environmental controls; production, timing, harvesting, and marketing of commercial floricultural crops; pest control strategies; and nutrient film technique. Development of commercial production schedule required.

(O) and (E) Denote Odd and Even Years RespectivelyClose

Close

Motion. Dr. O'Connor, representing Dr. Faw, moved to approve the changes. The motion was seconded by Dr. Baker and carried.

(March 7 memo)

Course Change:

From:

AGBE4120 Environ/Natural Resource. Lecture 3. Credit 3. Prerequisites: AGBE2100 and ECON2010. Issues and policies involving pollution, depletable and renewable resources and sustainable development. Students who have not had prerequisites can request permission from the instructor.

To:

AGBE4120 Natural Resource Economics. Lecture 3. Credit 3. Prerequisites: AGBE2100 or ECON2010. Static and dynamic models of renewable and non-renewable 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.

Motion. Dr. Mullins moved to approve the change effective Fall 2014. The motion was seconded by Dr. Isbell and carried.

22. Approval of Course Additions, Deletion, Changes and Curriculum Changes for the Agritourism concentration in the School of Agriculture

In a memorandum dated March 17, 2014, approval was requested for the following:

Course Additions:

ATOU 2100—Agritourism Development and Promotion. Lec. 3. Credit 3.

Agritourism has a direct economic impact on farms and surrounding communities. This course will delve into the tourism industry, strategies to develop and maintain farms and their heritage as tourism products, as well as explore strategies to document and promote the economic and cultural significance of agritourism. Open to both majors and non-majors.

ATOU 4100—Direct Marketing for AGR/HEC. Lec. 3 Credit 3.

Direct marketing shortens the marketing route and allows businesses to communicate with and deliver products directly to the consumer. This course will cover key elements of direct marketing in an agriculture and human ecology context, including retailing, merchandizing, social media marketing and services marketing. Open to both majors and non-majors.

ATOU 4200—Sustainable Tourism as Economic and Community Development. Lec. 3 Credit 3.

Prerequisite: ATOU 2100—Agritourism Development and Promotion or consent of instructor.

Sustainable tourism is a strategy for economic and community development in rural areas around the world. This course will trace the inception of these concepts from the United Nations World Tourism Organization and follow their application in various locations, both internationally and within the US. Focus will be given to various types of niche tourism to achieve economic and community development goals.

Course Deletion:

1. AGBE 1120—Introduction to Agritourism (3 hrs)

Course Discipline Change:

The course prefix for AGBE 3020 needs to reflect it is an agritourism course. When the course was first proposed, ATOU was not yet approved, so the course was submitted as an AGBE course.

FROM: AGBE 3020—Agriculture and Heritage Based Tourism. Lec. 3. Credit 3.

TO: ATOU 3020—Agriculture and Heritage Based Tourism. Lec. 3. Credit 3.

Curriculum Changes - Additions:

AGRN 3610—Food Safety in Agritourism (3 hrs)

AGRN 3610 - Food Safety in Agritourism – Planning. Cross-listing: (HEC).Lec. 2. Lab 1. Credit 3.

Introductory course in food safety as applied to the planning, production, and processing of cool season crops using experiential learning techniques. Food and farm safety regulations as related to the Agritourism industry. Students earn pesticide handler certification.

Directed Ag Electives (12 hrs)

AGBE 3110 Agricultural Marketing and Futures (no longer a requirement)

AGBE 4030 Agribusiness Management (no longer a requirement)

AGRN 3620 Food Safety in Agritourism

AGRN 3630 Food Safety in Agritourism
AGRN 3300 Organic Farming
AGHT 3400 Landscape Horticulture (no longer a requirement)
AGHT 3410 Plant Propagation
AGHT 3440 Floral Arrangement
AGHT 3470 Landscape Plant Material (no longer a requirement)
AGHT 3480 Horticultural Therapy

ACCT 3720—Survey of Accounting (3 hrs)

Lec. 3. Credit 3. Basic accounting principles, financial statements, cost behavior, cost accounting systems, and costing for management decisions. Open to non-business majors only. Credit will not be granted for both ACCT 2110 or ACCT 2120 and ACCT 3720. Enrollment in junior or senior level accounting courses requires junior standing. All business majors must have completed the Basic Business Program.

LAW 3810—Business Legal Environment and Ethics (3 hrs)

Lec. 3. Credit 3. The legal aspects of the business environment including antitrust, administrative, consumer, and employment law; business organizations; and principles of contracts. Enrollment in junior- or senior-level law courses requires junior standing. All business majors must have completed the Basic Business Program.

MKT 3400—Principles of Marketing (3 hrs)

Lec. 3. Credit 3. Prerequisite: ECON 2010. Marketing in an economic system, including marketing strategy and marketing mix variables available to the marketing manager. Enrollment in junior- or senior-level MKT courses requires junior standing. All business majors must have completed the Basic Business Program.

BMGT 3510—Management and Organization Behavior.

Lec. 3. Credit 3. Management functions and processes as applied to organizations with special emphasis on the behavioral aspects. Enrollment in junior- or senior-level law courses requires junior standing. All business majors must have completed the Basic Business Program.

Electives (3-4 hrs)

Increased electives from 2 hrs to 3 - 4 hrs to bring degree credit hours to 120 hours.

Curriculum Changes –Removals:

AGBE 3110—Agricultural Marketing and Futures
AGBE 4030—Agribusiness Management
AGBE 4940—Special Topic
AGHT 3400—Landscape Horticulture
AGHT 3470—Landscape Plant Material
AGET 3320—Small Power Equipment
AGET 3325—Small Power Equipment Lab
HIST 3100—Tennessee Topics
ACCT 2110—Principles of Financial Accounting
BMGT 3630—Human Resource Mgmt
LAW 4720—Business Law
WFS 3130—General Ecology

WFS 4700—Habitat Management

Curriculum Change:

Addition of another English Oral Presentational Communication course to choose from

FROM:

SPCH 2410—Introduction to Speech Communication (3 hrs)

TO:

SPCH 2410—Introduction to Speech Communication (3 hrs) OR PC 2500—Communication in the Professions

Motion. Dr. Mullens moved to approve the changes effective Fall 2014. The motion was seconded by Dr. Raymondo and carried.

23. Approval of Course Addition from the Department of Economics, Finance, and Marketing

In a memorandum dated March 13, 2014, approval was requested for the following:

Course Addition:

ECON 4120 Natural Resource Economics. Lecture 3. Credit 3. Prerequisites: AGBE2100 or ECON2010. Static and dynamic models of renewable and non-renewable 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.

Motion. Dr. Isbell moved to approve the addition effective Spring 2104. The motion was seconded and carried.

24. Election of 2014-15 Committee Chairperson

Ms. Galloway, representing the nominating committee of Dr. Wilson, Dr. Groundland and herself, presented the nomination Dr. Kristine Cravens to serve as the 2014-15 chairperson.

Motion. Dr. Eisen made a motion to close nominations and Dr. Cravens was elected by acclamation.

On behalf of the committee, Dr. Raymondo acknowledged Dr. Anderson for a job well done.

The meeting adjourned at 4:00.