Report from the Undergraduate Curriculum Committee Special Meeting dated

December 12, 2016

The UGCC Committee met for the standard meeting in the Provost’s conference room at 3:15 p.m. on December 12, 2016. The following proposals were passed unanimously in committee and are before you today for approval.

A. College of Engineering-Industrial, Manufacturing, and Systems Engineering

1. Curriculum Changes to BS in Industrial Engineering

   Action item:
   - Correct change “from PHYS 2421 to MATH 2312” to “from PHYS 2421 to MATH 1312”

   Rationale: This proposal was previously presented at the UGCC (November 14), however when it went to the Faculty Senate an error was pointed out in a listed prerequisite for IE 2377. The request asked for a prerequisite change from PHYS 2421 to MATH 2312. The correct change would be from PHYS 2421 to MATH 1312

B. College of Liberal Arts-Theatre and Dance

1. Degree plan changes for BFA in Theatre: Stage Management

   Action items:
   - Increase the number of electives within the major
   - Inclusion of free electives for related courses outside the major or for participation in the honors program without going over 120 credit hours
   - Change the wording of the degree plan from Stage Management to Stage & Theater Management

   Rationale: This proposal increases the number of elective options for students in this degree plan, giving students a wider range of course options within their major. In addition, this proposal assists students who wish to concentrate in more than one aspect of the degree, and provides options for students in the case that a course is not offered in a given semester. Lastly, this proposal includes free elective options so students may participate in the honors program or take related classes outside their major without going over 120 credit hours.

2. Course add, DANC 3331 Dance Internship

   Action Items:
   - Course to be added:
     DANC 3331 Dance Internship
Rationale: The department of Theatre and Dance proposes the creation of a new course, DANC 3331, Dance Internship. This new course will give credit hours to Dance students who are enrolled in prestigious dance programs outside of UTEP and will encourage Dance students to gain valuable experience by seeking out these National and International Dance programs.

C. College of Liberal Arts-Military Science

1. Military Science Minor Degree Plan

Action Items:
- Addition of a minor pathway in Military Science for students that do not desire a commission in the Armed Forces
  - Pathway to commission will include 9 lower and 9 upper-division hours
  - Pathway without commission would only require students to take 9 lower-division hours in Military Science and take 9 hours of upper-level courses from other departments listed in course outline

Rationale: The minor currently focuses on students who want to have an opportunity to become a commissioned officer in the U.S. Army. Changes to the minor will provide two pathways: one for students who desire to seek a commission and serve in the armed forces after graduation, another for students who do not desire a commission in the armed forces.

D. College of Liberal Arts-Psychology

1. Correcting prerequisites and descriptions for Psychology undergraduate courses

Action items:
- Delete PSYC 3101 General Experimental Psychology Laboratory requirement for some lower division courses and block electives
  Previous changes in course numbering overlooked this and should only require 1301
- C or better in PSYC 1301 Introduction of Psychology will be required
  Core course requiring grade of C
- All prerequisite courses for advanced level courses should require a C or better
  Insure appropriate mastery of the material
- Remove Statistical Methods (PSYC 1303) and PSYC 1301 Introduction to Psychology prerequisite for courses that require PSYC 3201 General Experimental Psychology
  These courses are also prerequisites for the General Experimental Psychology, so listing them as prerequisites along with Gen Exp Psych as a prerequisite is redundant
- Add Math 1508 Pre-calculus and/or Math 1411 Calculus to the acceptable math requirements for PSYC 3201 General Experimental Psychology and streamline the math prerequisites for PSYC 4317 Advanced Statistics
  Acceptable pre-requisites for PSYC 3201
Course description updates for PSYC: 1303, 3102, 3315, 3330, 3346, 4312, 4317

Rationale: Multiple changes to the course prerequisites and descriptions for psychology undergraduate courses.

E. College of Engineering-Engineering Education & Leadership

1. Proposed Changes to the BS in Engineering Leadership Degree Plan

Action Items: See appendix 1

Rationale: There are several changes to the Engineering Education and Leadership degree plan, including updated course titles, and course descriptions. These changes provide improvements consistent with preparation for ABET-accreditation during the next College of Engineering review cycle. Changes to the degree plan include the addition of proposed sequences in Electrical Engineering, Civil Engineering Mechanics, Biomedical Engineering, Metallurgical and Materials Engineering, and Computer Science, providing an overarching guide to majors and courses within majors in the College of Engineering degree plan that match disciplinary interests.

F. College of Engineering-Computer Science

1. Computer Science curriculum changes for the Fall 2017 catalog

Action items:
- The following courses will be added:
  - CS 1190 Special Topics in Computing
  - CS 1290 Special Topics in Computing
  - CS 4362 Data Mining
  - CS 4363 Computer Vision
  - CS 4361 Machine Learning
  - CS 4318 Wireless Networks

Rationale: The Computer Science department proposes to add CS 1190 (Special Topics in Computing) and CS 1290 (Special Topics in Computing); this will allow students to be exposed early in their degree plan to short topics in the field in addition to programming. The department also proposes to add: CS4362 (Data Mining), CS 4363 (Computer Vision), CS 4361 (Machine Learning) and CS 4318 (Wireless Networks). The first three have been taught several times as special topics courses, while CS 4318 will be required in the Cyber-Systems concentration.

G. College of Science-Environmental Science

1. Degree plan update – Minor in Environmental Science

Action items:
- Remove 15 course choices from the minor in Environmental Science
- Replace with “Choose a minimum of 3 hours of upper-division classes in Biology, Chemistry, Environmental Science, Geography, Geology,
Rationale: Proposal to simplify the Minor in Environmental Science to remove a list of 15 possible courses and replace the list with a more generic statement, “Choose a minimum of 3 hours of upper-division classes in Biology, Chemistry, Environmental Science, Geography, Geology, Geophysics, Math, Physics, or any environmental ethics, health or policy course.”
Appendix 1. Proposed changes for the Department of Engineering Education and Leadership BS in Engineering Leadership Degree plan

Proposed changes from the EL 2015 to the EL 2017 Degree Plan (General Engineering Sequence):

- Replace both EL 1205 (Graphic Fundamentals in Engr Design) and EL 1005 (Engr Leadership Seminar) with EL 1405 (Fundamentals of Engr Leadership and Graphics)
- Change the two Professional Practice courses (EL 3103 & EL 3105) to being zero-credit, thus EL 3003 & 3005.
- The two above items result in no change in the total course credit hours.

• Course Name and Description Changes
  o EL 2301 from Engr Leadership I Modeling & Simulation
  o EL 3302 from Engr Leadership II Engineering Measurements
  o EL 3311 from Systems Engineering Engineering Design: People to Products
  o EL 3304 from Engr Leadership III. Engr. Entrepreneurship:Products to People
  o EL 4395 from Senior Design I Capstone Design I: Definition & Exploration
  o EL 4396 from Senior Design II Capstone Design II: Development & Evaluation

• Change all EL courses to a grade of "C" or better required for graduation credit.

The following are proposed course sequence alternatives to the 2017 (above) Engineering Leadership Degree Plan.

B.S in Engineering Leadership-General Engineering w/ CS Sequence

- Replace MATH 2313 (Calculus III) with MATH 2300 (Discrete Mathematics)
- Replace the 12 credit hours of Track/Concentration Electives with:
  o CS 1401 (Intro to Computer Science)
  o CS 2404 (Elementary Data Structures)
  o CS 2302 (Data Structures)
  o CS 4183 (Undergraduate Seminar)

B.S in Engineering Leadership-EE Sequence

- Replace a Track/Concentration Elective with CS 1320 (Computer Programming Sci/Engr)
- Replace MME 2434 (Mechanics of Materials) with EE 2369 (Digital Design I) & Lab 2169 (Lab for EE 2369)
- Replace CE 2338 (Dynamics) with EE 2350 (Electrical Circuits I)
- Replace MECH 2311 (Intro to Thermal Fluid Sci) with EE 2351(Electrical Circuits II)
• Replace 3-credit hours of Engr Tech Elective with EE 3321 (Electromagnetic Field Theory) or EE 2353 {Cont. Time Signals & Systems}
• Replace 3-credit hours of Engr Tech Elective with 3 credit-hours of upper division electives
• Replace 3-credit hours of Engr Tech Elective with 3 credit-hours of upper division electives

B.S in Engineering Leadership - Engineering Mechanics (EM) Sequence
• Replace MME 2303 (Intro to Materials Science & Engineering) with CE 1301 (Civil Engineering Fundamentals)
• Replace MME 2434 (Mechanics of Materials) with CE 2315 (Statics)
• Replace MECH 2311 (Intra to Thermal Fluid Science) with CE 2334 (Mechanics of Materials)
• Replace 3 SCH of ENGR Technical Elective with CE 2375 (Thermal Fluid Science)
• Replace 6 SCH of ENGR Technical Electives with 6 or 8 SCH of CE Technical Electives
• Add EL 41911 Independent Studies. Note this fulfills final credit hour of required engineering hours for ABET: 1 credit-hour was lost due to switching from the 4 credit-hour MME- to 3 credit-hour CE-version of Mech. of Materials.

B.S in Engineering Leadership - BME Sequence
• Replace 3 credit hours of Engr Tech Elective with BME 3303 (Fundamentals of BME I)
• Replace 3 credit hours of Engr Tech Elective with BME 3305 (Fundamentals of BME II)
• Replace 3 credit hours of Engr Tech Elective with an approved Engineering Elective from the list for the BME Minor (http://bme.utep.edu/minor degree_requirements.htm)
• Replaces the 12 credit hours of track concentration electives with:
  o BIOL 1305/1107 (General Biology & Topics in the Study of Life)
  o BIOL 2311/2111 (Human Anatomy/Physiology I and Human Anatomy/Physiology I Lab)
  o BIOL 2313/2113 (Human Anatomy/Physiology II and Human Anatomy/Physiology II lab)
• Replaces upper-level Math/Science elective with an approved upper-level Health Science or Physical Science elective from the list for the BME Minor (http://bme.utep.edu/minor degree_requirements.htm)

B.S in Engineering Leadership - MME Sequence
• Replace CE 2338 (Dynamics) with MME 3309 (Electronic Materials Science)
• Replace MECH 2311 (Intra to Thermal Fluid Sci) with MME 3312 (Biomat, Biomat Prntng & Devolpment)
• Replace 3 credit hours of Engr Tech Elective with MME 4309 (Corrosion)
• Replace 3 credit hours of Engr Tech Elective with MME 4316 (Failure Analysis).