



## Faculty Senate

April 25, 2006

### Faculty Senate Curricular Affairs Committee Four Hundred Forty-Third Report

At the April 24, 2006 meeting of the Curricular Affairs Committee the following matters were considered and are now presented to the Faculty Senate.

#### SECTION I

##### Informational Matters

##### A. College of Engineering

##### 1. Department of Mechanical Engineering

- a. CHANGE: Prerequisite for MCE 262 to "Pre: MTH 141 and credit or concurrent enrollment in EGR 106."
- b. CHANGE: Description for the following courses:
  - 1) **MCE 301 Application of Mechanics in Design (3)**  
Concepts of engineering design, material selection, failure theories, fracture and fatigue, and finite-element analysis. Application to the design of mechanical components such as shafts, bolts, welded joints, and springs.
  - 2) **MCE 302 Design of Machinery (3)**  
Analysis and design of mechanisms and machine elements including linkages, gear trains, cam-follower systems, bearings, brakes and clutches, flexible mechanical elements, and intermittent and other devices. Graphical, analytical and computer-aided synthesis techniques.

##### 2. Department of Ocean Engineering

- a. CHANGE: Prerequisites for the following courses:
  - 1) OCE 205 to "Pre: EGR 106 and concurrent enrollment in OCE 215."

- 2) OCE 206 to "Pre: OCE 205 and concurrent enrollment in OCE 216."
- 3) OCE 301 to "Pre: MTH 243 and OCE 205 and EGR 106."
- 4) OCE 307 to "Pre: MCE 354 and OCE 301, or permission of Instructor."
- 5) OCE 311 to "Pre: OCE 310."

- b. CHANGE: Method of instruction for OCE 215 to "(Lec. 1, Lab. 1)" for one credit and add "concurrent enrollment in OCE 205."
- c. CHANGE: Method of instruction for OCE 216 to "(Lec. 1, Lab. 1)" for one credit and prerequisite to "Pre: OCE 215 and concurrent enrollment in OCE 206."

B. College of Human Science and Services

Department of Human Development and Family Studies

ADD: **HDF 305X Involving Families in Diverse Early Childhood Settings (3)**

This class examines the research rationale, theoretical bases and effective strategies for early childhood practitioners to establish and maintain relationships with families in settings serving young children. (Lec. 3) Pre: 200, 230 and 203 or 306.

C. College of Nursing

- a. CHANGE: Prerequisite for NUR 103 to "Pre: NUR code or WNUR code or "permission of instructor" and method of instruction to "(Lec. 3)."
- b. CHANGE: Prerequisite for NUR 203 to "Pre: BIO 242 and 244 and NUR 103 and CHM 124 or MIC 201 and WRT and PSY 113 and nursing math test."
- c. CHANGE: Prerequisite for NUR 323 to "Pre: NUR 213 and 234 and 253."
- d. CHANGE: Prerequisite for NUR 233 to "Pre: 203, NFS 207, PSY 232 and MIC 201."
- e. CHANGE: Prerequisite for NUR 346 to "Pre: 246 and 253."

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## S E C T I O N II

### Curricular Matters Which Require Confirmation by the Faculty Senate

#### A. College of Engineering

##### Department of Ocean Engineering

CHANGE: Credits for OCE 301 to "4" and prerequisite to "Pre: MTH 243 and OCE 205 and EGR 106."

#### B. College of the Environment and Life Sciences

##### 1. Department of Biological Sciences and Department of Cell and Molecular Biology

CHANGE: BIO 352 (or BCH 352) by deleting former cross-listing with AFS and PLS; adding a recitation section to the method of instruction and increasing credits to 4 as follows:

##### **BIO 352 (or BCH 352) General Genetics (4)**

Introduction to basic genetic principles and concepts leading to an understanding of genes, heredity and the nature of inherited variation. Applications and implications for animals, plants, fungi and bacteria. (Lec. 3, Rec. 1) Pre: BIO 101 and 102.

##### 2. Department of Biological Sciences and Department of Geosciences

CHANGE: Level and number for BIO 350 (or GEO 350) Evolution to "BIO 250 (or GEO 250)."

##### 3. Department of Environmental and Resource Economics and Department of Natural Resources Science

CHANGE: Requirements for major in Environmental Economics and Management as follows:

- a) Add NRS 205 to the list of Introductory Professional courses; increase credits in category from "9" to "12."
- b) Reduce the number of supporting electives from "21" to "18."

#### C. Minor Fields of Study

1. Amend section **8.20.63** of the UNIVERSITY MANUAL by adding "Departments and programs may require an application for a minor in advance of the second semester of the senior year, but not before the semester in which 60 credits are completed."

The section would read as follows (change is underlined):

**8.20.63** Application for a minor must be filed in the academic dean's office no later than the beginning of the second semester of the student's senior year. Departments and programs may require an application for a minor in advance of the second semester of the senior year, but not before the semester in which 60 credits are completed.

2. Amend section **8.20.62** of the UNIVERSITY MANUAL by clarifying which courses may be used toward a minor. The section would read as follows (changes are underlined):

**8.20.62** No course required in a major program (30-36 credits) may be used to apply to both the major and minor fields of study. Courses from other curricula that are recommended or required for the major may apply to the minor. Courses in General Education may be used for the minor. Courses in the minor may not be taken under the pass-fail grading option.

In addition the Curricular Affairs Committee proposes that the University Catalog be reorganized in order that the discussion of minors in each program follows the discussion of majors.

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### S E C T I O N III

#### Curricular Report from the Curricular Affairs Committee and Graduate Council on 400-Level Courses

At the March 27, 2006 and April 24, 2006 meetings of the Curricular Affairs Committee and the March 3, 2006 and April 21, 2006 meetings of the Graduate Council, the following matters were considered and are now presented to the Faculty Senate.

#### A. Informational Matters

##### 1. College of Engineering

##### a. Department of Mechanical Engineering

\* CHANGE: Method of instruction for MCE 401 to "(Lec. 3)" and prerequisite to "Pre: 201 and 301 and 302 and 366."

##### b. Department of Ocean Engineering

\* CHANGE: Prerequisite for OCE 495 to "Pre: senior standing and OCE 307 and 471."

##### c. Department of Electrical and Computer Engineering

CHANGE: Description for ELE 444 to read "Review of number systems, combinational and sequential logic, state machine. Design capture tools, hardware/software design, system implementation using PC's, MSI circuits and FPGAs."

2. College of Nursing

- \* a. CHANGE: Description for NUR 434 and 444 by reinstating "service learning" notation.
- \* b. CHANGE: Prerequisite for NUR 446 to "Pre: 246 and 253."
- \* c. CHANGE: Description for NUR 463 by adding "capstone."
- \* d. CHANGE: Description for NUR 474 by adding "capstone" and change prerequisite to "Pre: Prior or concurrent enrollment in 464."

B. Curricular matters which require confirmation by the Faculty Senate

1. College of Arts and Sciences

a. Department of Computer Science and Statistics

ADD: The following courses:

a) **CSC 485 Computer Forensics (4)**

The science, technology, procedures and law of acquiring and analyzing digital evidence from computers and devices (Lec. 3, Lab 3). Pre: 412, or permission of instructor.

b) **CSC 486 Network Forensics (4)**

The science, technology, procedures and law of acquiring and analyzing digital evidence from computer network activity (Lec. 3, Lab 3). Pre: 485.

b. Department of English

ADD: **ENG 489 Literature and Empire (3)**

Studies of specific authors, literary movements, or comparative themes in texts reflecting the impact of colonization and imperialism. (Lec. 3) Pre: junior or senior standing.

2. College of Engineering

Department of Electrical and Computer Engineering

\*No action by the Graduate Council. Not for graduate credit.

1) ADD: The following courses:

\* a) **BME 464 Medical Imaging (3)**

Engineering and clinical applications of medical imaging systems including X-ray, computed tomography, radioisotope imaging, ultrasound, magnetic resonance imaging; picture archiving and communication system and medical image processing. (Lec. 3) Pre: senior standing in biomedical engineering or permission of instructor. Not for graduate credit. Not open to students who have credit in 564.

\* b) **BME 465 Medical Image Processing Laboratory (1)**

Development of medical imaging processing algorithms with graphical user interface in C++ under the Windows operating system; smoothing and sharpening filters, morphological filters, area measurement and edge tracer. (Lab 1) Pre: senior standing in biomedical engineering or permission of instructor. Not for graduate credit. Not open to students who have credit in 564.

2) DELETE: **ELE 488 Biomedical Engineering I (4)**

\*No action by the Graduate Council. Not for graduate credit.