



## Faculty Senate

October 10, 2006

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

During the summer and at the September 25, 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 Arts and Sciences

##### 1. Department of Communication Studies

ADD: The following temporary course:

**COM 271X Web Design and Programming (4)**

Web development with client-side programming using XHTML, CSS, and JavaScript. Includes designing with web standards, accessibility, usability, and site development and management.  
(Lec. 2, Lab. 4)

##### 2. Department of Mathematics

CHANGE: Prerequisite for MTH 316 to "Pre: 215 and 307."

##### 3. Public Relations Program

CHANGE: Marketing and Writing Electives for the B.A. in Public Relations to read as follows:

Marketing: BUS 365, BUS 465, BUS 468

Writing: JOR 321, WRT 201, WRT 235, WRT 302, WRT 303, WRT 304, WRT 333

##### 4. Department of Theatre

ADD: The following temporary courses:

**THE 302X, 303X Articulation for the Actor (1 each)**

Improvement of articulation for performing period and contemporary plays for BFA acting majors. Includes work on the International Phonetic Alphabet, relaxation, resonance, voice placement, quality, pitch and inflection (Lec. 1) Pre: BFA acting major and junior standing.

B. College of Engineering

Department of Electrical, Computer and Biomedical Engineering

ADD: The following temporary course:

**ELE 306X Computer Engineering Laboratory (2)**

Computer hardware design, simulation and synthesis using electronic design automation (EDA) tools. Introduction to IEEE VHDL (VHSIC Hardware Description Language). (Lec. 1, Lab. 3) Pre: 201, 202, 205 credit or concurrent enrollment in 305 and one of CSC 200, 201 or 211.

C. College of Pharmacy

Department of Biomedical and Pharmaceutical Sciences

ADD: The following temporary course:

**BPS 317X Pharmaceutical Calculations (1)**

Introduction to calculation techniques that are essential to pharmaceutical technology, including the compounding and dispensing of dosages. (Lec. 1) Pre: third year standing or permission of instructor.

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S E C T I O N II

Curricular Matters Which Require Confirmation by the Faculty Senate

A. College of Arts and Sciences

1. Department of Computer Science and Statistics

Department of Modern and Classical Languages and Literatures

ADD: The following new courses in Arabic (ARB):

- 1) **ARB 101 Beginning Arabic I (3)**  
Fundamentals of grammar and pronunciation of Arabic; exercises in reading, writing and conversation. (Lec 3) Students enrolling in this course should have had no more than one year of previous Arabic study.
- 2) **ARB 102 Beginning Arabic II (3)**  
Continuation of 101. (Lec 3) Students enrolling in this course should have taken 101 or its equivalent.
- 3) **ARB 103 Intermediate Arabic I (3)**  
Development of facility in reading; exercises in grammar, writing and conversation. (Lec 3). Students enrolling in this course should have taken 102 or equivalent.
- 4) **ARB 104 Intermediate Arabic II (3)**  
Continuation of 103. (Lec 3). Students enrolling in this course should have taken 103 or its equivalent.

## B. College of the Environment and Life Sciences

### 1. Department of Biological Sciences

#### a. DELETE: The following courses:

- 1) BIO 100 Topics in Biology (3)
- 2) BIO 103 Topics in Biology with Recitation (3)
- 3) BIO 104 Topics in Biology with Laboratory (3)
- 4) BIO 141 Introduction to the Biology of Marine Animals (3)
- 5) BIO 203 Introduction to Evolutionary Genetics (3)
- 6) BIO 206 Population and Community Dynamics (3)
- 7) BIO 321 Plant Diversity (3)

#### b. CHANGE: Requirements for the B.A. in Biology to read as follows:

Students selecting a major in biology must complete a minimum of 28 credits (maximum 45 credits) in biological sciences including the following courses: BIO 10 1 and 102 (8), and MIC 211 (4). They must also complete a minimum of three credits from each of the three lists (A, B, and C) below. The remaining nine credits may be selected from courses in biology and/or microbiology. Up to three credits of AVS 491/492, AFS 491/492, BCH 491/492, BIO 491/492, MIC 491/492, NRS 491/492, OCG 493/494, or PLS 491/492 may be used toward the elective course requirements. Students in this major must elect a year of chemistry with laboratories.

#### c. CHANGE: Requirements for the B.S. in Biological Sciences to read as follows:

Students are encouraged to become involved in research activities by arranging to register for assigned work as Special Problems (491, 492). Up to three credits of AVS 491/492, AFS 491/492, BCH 491/492, BIO 491/492, MIC 491/492, NRS 491/492, OCG 493/494, or PLS 491/492 may be used toward the B.S. degree.

- d. CHANGE: Requirements for B.S. in Marine Biology to read as follows:

The remaining ten credits must be selected from the following, with no more than three credits of Special Problems to be applied to this requirement: BIO 345, 355, 418, 441, 455, 457, 458, 465, 469, 475, 491, 492, 495; AVS 491, 492; AFS 491, 492; BCH 491, 492; MIC 491, 492; NRS 491, 492; OCG 493, 494, PLS 491, 492; OCG 420, 576. Students must take at least three laboratory courses in biological sciences (BIO) in addition to BIO 101 and 102 and excluding Special Problems.

2. Departments of Biological Sciences and Plant Sciences

\* ELIMINATE: B.S. in Environmental Plant Biology.

3. Departments of Biological Sciences and Cell and Molecular Biology and Departments of Animal and Veterinary Science and Plant Sciences

CHANGE: Code, number, credits description and prerequisite for AFS 355 (or PLS 355) Genetics Laboratory as follows effective spring 2007:

**BCH 353 (or BIO 353) Genetics Laboratory (1)**

Basic principles and concepts of genetics demonstrated with microorganisms, plants and animals. (Lab. 2) Pre: credit or concurrent enrollment in 352.

4. Department of Cell and Molecular Biology

CHANGE: credits for MTC 195 to "4."

5. Department of Natural Resources Science

\* ELIMINATE: B.S. Degree Program in Water and Soil Science.

- C. College of Human Science and Services

Department of Kinesiology

\*May require action by the Board of Governors for Higher Education.

DELETE: The following courses:

- 1) KIN 106 Activity II: Team Sports and Group Activities (1)
- 2) KIN 206 Intermediate Elective, Activity II (1)

D. Policy on Computer-Related Courses

The CAC has adopted the following with regard to computer-related courses:

In very general terms, computer science as a discipline describes its content as the design, implementation, and evaluation of algorithms that can be executed on computing machinery; the study of the methods and results of computational (algorithmic) processes; and the design, implementation, and evaluation of computational (algorithmic) principles to problems that can be solved via computation.

The Computer Science Department will be consulted in the review of courses whose primary content falls into any of the areas outlined below:

- 1) Computer and computational concepts and skills. This includes courses that teach basic computer hardware, use of computer operating systems, the working of computer networks and Internet applications, and general computer concepts for a general audience.
- 2) Computer programming and software engineering. This includes courses that teach computer languages (programming languages, scripting languages, and markup languages), programming techniques, and the methodologies for creating computer software, scripts, and database schemas.
- 3) Computer science applications. This includes courses that teach how to create: web applications, database applications, artificial intelligence applications, computer graphics applications, bioinformatics applications, computer-based cryptography, and digital forensics--i.e., courses that that are based on the application of computational principles and concepts to problems in the various disciplines or areas.
- 4) Computer software systems. This includes courses that teach the development of computer operating systems, computer networking protocols and techniques, and computer security.
- 5) Computing theory. This includes courses that teach the theory of computation and analysis of computer algorithms.

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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

During the summer and at the September 25, 2006 meeting of the Curricular Affairs Committee and the September 29, 2006 meeting of the Graduate Council, the following matters were considered and are now presented to the Faculty Senate. This section includes matters approved prior to the summer 2006 but either omitted or reported incorrectly in previous reports.

#### A. Informational Matters

##### 1. College of Arts and Sciences

###### a. Department of Mathematics

CHANGE: Prerequisites for the following courses:

- a. MTH 425 to "Pre: 243 and 307, or permission of instructor or chair."
- b. MTH 435 to "Pre 243. 307 is strongly recommended."
- c. MTH 437 to "Pre: 243, credit or concurrent enrollment in 215 or 362."

###### b. Department of Psychology

ADD: The following temporary course:

**PSY 400X Quantitative Methods in Psychology – Part 2 (3)**  
Additional concepts and techniques of quantification in psychology. Emphasis on inferential statistical tools in the analysis of psychological measurements of behavior. (Lec. 3)  
Pre: 300.

###### c. Department of Theatre

ADD: The following temporary courses:

**THE 402X, 403X Articulation for the Actor (1 each)**  
Improvement of articulation for performing period and contemporary plays for BFA acting majors. Includes work on the International Phonetic Alphabet, relaxation, resonance, voice placement, quality, pitch and inflection (Lec. 1) Pre: BFA acting major and senior standing.

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

###### a. Department of Cell and Molecular Biology

CHANGE: Method of instruction for MTC 483 to "(Lec. 3)."

b. Department of Community Planning and Landscape Architecture

\* ADD: The following temporary course:

**LAR 482X Applied GIS for Landscape Architecture (3)**

GIS software, data and orthophotos will be explored and used for site analysis and the creation of plans suitable for standing alone or being incorporated into CAD design/planning applications. (Lec. 2, Lab. 2) Pre: junior or senior landscape architecture major or permission of instructor. Not for graduate credit.

c. Department of Natural Resources Science

\* ADD: The following temporary course:

**NRS 404X Applied Terrestrial Ecology (3)**

This course emphasizes the ecosystem concept, investigates the structure and functioning of ecological systems, examines the response of systems to changing environmental conditions, and applies resulting knowledge to preservation and management issues. (Lec. 2, Lab. 2) Pre: BIO 262 or permission of instructor. Not for graduate credit.

3. College of Engineering

Department of Mechanical Engineering

CHANGE: Prerequisite for MCE 401 to "Pre: 201 and 301 and 302 and 366."

4. College of Human Science and Services

Change: Prerequisite for the following courses:

a) HDF 421 to "Pre: junior standing or above."

b) HDF 471 to "Pre: 421, or prior thanatology course, or permission of instructor."

\* c) HDF 481 to "Pre: permission of instructor."

5. Graduate School of Oceanography

\* CHANGE: Description for OCG 401 by adding "Not for graduate credit."

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

B. Curricular Matters which require confirmation by the Faculty Senate

1. College of Arts and Sciences

Department of Computer Science and Statistics

CROSS-LIST: ELE 438 as "ELE 438 (or CSC 418) Information and Network Security (4)."

2. College of the Environment and Life Sciences

a. Department of Biological Sciences

DELETE: BIO 460 Advanced Population Biology (3)

b. Departments of Biological Sciences and Cell and Molecular Biology

DELETE: BCH 454 (BIO 454) Genetics Laboratory (3)

c. Department of Community Planning and Landscape Architecture

\* ADD: **LAR 482 Applied GIS for Landscape Architecture (3)**  
GIS software, data and orthophotos will be explored and used for site analysis and the creation of plans suitable for standing alone or being incorporated into CAD design/planning applications. (Lec. 2, Lab. 2) Pre: junior or senior landscape architecture major or permission of instructor. Not for graduate credit.

d. Department of Geosciences

CHANGE: Credits for GEO 497 to "(4)" and method of instruction to "(Lec, 2, field trip)."

e. Department of Marine Affairs

ADD: **MAF 494 Cases in Marine Policy (3)**  
A single, current problem drawn from areas such as coastal management, ports, or fisheries is examined through detailed analysis of alternatives and decision processes. (Seminar). Pre: permission of instructor or chair.

3. College of Human Science and Services

a. School of Education

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

CHANGE: Credits for EDC 455 Language Arts Methods in Elementary and Middle School Teaching to "(2)" effective fall 2007.

b. Department of Human Development and Family Studies

ADD: **HDF 458 R.I. Early Learning Standards (3)**

Prepares early childhood professionals to implement the RI Early Learning Standards in diverse early care and education settings to increase program quality and support children's learning and development. (Lec. 3) Pre: Enrollment in R.I. Early Learning Standards Project sponsored by R.I. Dept. of Education. S/U only for undergraduate students. A-F grades for graduate students.

4. College of Nursing

\* CHANGE: Level, number and prerequisite for NUR 453 as follows:

"NUR 253 (453) Nursing Research (3) ... Pre: 203, MTH 107 or STA 220 or PSY 300 or equivalent."

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