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Curricular Affairs Committee Report #392

University of Rhode Island Faculty Senate

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Faculty Senate Curricular Affairs Committee

Three Hundred and Ninety-Second Report

At the Curricular Affairs Committee's meeting of January 29, 2001 the following matters were considered and are now presented to the Faculty Senate.

SECTION I

Informational Matters

A. College of Engineering

1. Department of Electrical and Computer Engineering

CHANGE: Description for the following courses:

1) ELE 313 Linear Systems (3) Fourier series, Fourier transforms, transfer functions of continuous and discrete-time systems, transient and steady-state response, natural response and stability, convolution. (Lec. 3)

2) ELE 314 Linear Systems and Signals (3) Continuous-time and discrete-time systems, frequency response, stability criteria, Laplace transforms, z-transforms, filters, sampling, feedback, and applications. (Lec. 3)

3) ELE 331 Introduction to Solid State Devices (3) Electrical and optical properties of semiconductors. Characteristics of p-n and metal-semiconductor junctions. Application to diodes, transistors and light emitting and absorbing devices. Fabrication technology is introduced. (Lec. 3)

4) ELE 342 Electronics I (4) Review of linear circuit theory, operational amplifiers, diode and transistor circuits, computer-aided design, linear and nonlinear circuit applications, CMOS logic (Lec. 3, Lab. 3)

2. Department of Ocean Engineering
a. CHANGE: Title for OCE 215 to "Ocean Engineering Design I" and grading method from S/U to regular grade.

b. CHANGE: Title for OCE 216 to "Ocean Engineering Design II."

B. College of Human Science and Services

Department of Physical Education and Exercise Science

a. CHANGE: Title and description for PEX 382

PEX 382 Psycho-Social Aspects of Physical Education and Sport (3) The scientific study of the behavior of individuals and groups within sport and physical activity. (Lec. 3) Pre: admission to the teacher education program and PSY 113, or permission of chairperson.

b. CHANGE: Description for PEX 215 by adding "H. Track and Field."

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SECTION II

Curricular Matters Which Require Confirmation by the Faculty Senate

A. College of Arts and Sciences

1. Departments of History, Languages and Sociology and Anthropology

ADD: LAS 390 The Hispanic Caribbean: Study Abroad in the Dominican Republic (3) Emphasis on the Dominican Republic, Cuba, and Puerto Rico. Topics will include colonization and slavery, race, gender, religion, European and U.S. interventionism, migration, and development. (Lec. 3) Pre: SPA 104; HIS 180 is suggested.

2. Department of Journalism

ADD: JOR 215 Free Speech and American Society (3) Legal and social parameters of freedom of speech in the United States. The legal and social history of freedom of speech will be examined and applied to discussions of recent free-speech controversies. (Lec. 3)

B. College of Engineering
Department of Ocean Engineering


b. DELETE: OCE 395 Ocean Systems Design Proposal (1)

c. CHANGE: B.S. curriculum in Ocean Engineering to read as follows:

Freshman Year

First semester: 16 credits

3 CHM 101 General Chemistry Lecture I
1 CHM 102 Laboratory for Chemistry 101
4 MTH 141 Introductory Calculus with Analytic Geometry
3 PHY 203 Elementary Physics I
1 PHY 273 Elementary Physics Laboratory I
1 EGR 105 Foundations of Engineering
3 General Education Elective

Second semester: 17 credits

2 EGR 106 Foundations of Engineering II
4 MTH 142 Intermediate Calculus with Analytic Geometry
3 PHY 204 Elementary Physics II
1 PHY 274 Physics Laboratory II
1 OCE 101 Introduction to Ocean Engineering
3 MCE 262 Statics
3 ECN 201 Economics Principles

Sophomore Year

First semester: 16 credits

1 OCE 215 Ocean Engineering Design I
3 MCE 263 Dynamics
3 MTH 243 Calculus and Analytical Geometry
3 PHY 205 Elementary Physics III
6 General Education Electives
Second semester: 16 credits
1 OCE 216 Ocean Engineering Design II
3 CVE 220 Mechanics of Materials
3 MTH 244 Differential Equations
3 ELE 220 Passive and Active Circuits
3 OCG 451 Oceanographic Science
3 General Education Elective

Junior Year
First semester: 15/16 credits
3 OCE 301 Fundamentals of Ocean Mechanics
3 CHE 333 Engineering Materials or
3 CVE 381 Geotechnical Engineering and
1 382 Geotechnical Engineering Laboratory
3 MCE 354 Fluid Mechanics
3 OCE 310 Basic Ocean Measurements
3 IME 411 Probability and Statistics for Engineers
Second semester: 16 credits
3 OCE 307 Introduction to Engineering Wave Mechanics and Littoral Processes
4 OCE 311 Coastal Measurement and Analysis
3 OCE 471 Underwater Acoustics
3 EGR 316 Engineering Ethics
3 General Education Elective

Senior Year
First semester: 17 credits
2 OCE 416 Ocean Engineering Professional Practice
3 OCE 495 Ocean Systems Design Project I
3 OCE 421 Marine Structure Design
3 General Education Elective
6 Professional Electives*  
Second semester: 15 credits
3 OCE 496 Ocean Systems Design Project II
3 Free Elective
6 Professional elective*  
3 General Education Elective

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1. An approved off-campus experience, usually between the junior and senior years, can be substituted for OCE 495 and 496.
2. * The requirement for professional electives must be satisfied by a minimum of two, approved three-credit elective courses at the 300, 400, or 500 level in engineering and two, approved three credit courses in Ocean Engineering.

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C. College of Human Science and Services
Department of Physical Education and Exercise Science

a. CHANGE: Title, description, method of instruction and prerequisite for PEX 314:

PEX 314 Methods of Teaching Physical Education in Secondary Schools  
(3) Instruction in contemporary techniques used in a program of physical education for secondary school children. Types of activities found in basic programs and in planned progressions for various age groups. (Lec. 2, Lab. 2) Pre: 304, 305, concurrent enrollment in 315, admission to the teacher education program; or permission of chairperson.

b. CHANGE: Title, description, credits, method of instruction and prerequisite for PEX 315:
PEX 315 Supervised Experience - Physical Education in the Secondary School (1) Students participate in supervised experience laboratory for methods learned in 314. (Practicum) Pre: 304, 305, concurrent enrollment in 314, admission to the teacher education program; or permission of chairperson.

c. DELETE: PEX 321 Track and Field.

d. CHANGE: Level, number, title, description, prerequisite and method of instruction for PEX 295:

PEX 304 (295) Methods of Teaching Physical Education in Elementary Schools (3) Instruction in contemporary techniques used in a program of physical education for elementary school children. Types of activities found in basic programs and in planned progressions for various age groups. (Lec. 2, Lab. 2) Pre: concurrent enrollment in 305, admission to the teacher education program by the start of semester; or permission of chairperson.

e. CHANGE: Level, number, title, description and prerequisite for PEX 250:

PEX 305 (250) Supervised Experience - Physical Education in the Elementary School (1) Students participate in supervised experience laboratory for methods learned in 304. (Practicum) Pre: concurrent enrollment in 304, admission to the teacher education program by the start of semester; or permission of chairperson. S/U only.

f. CHANGE: Title, credits, description, method of instruction and prerequisite for PEX 324:

PEX 324 Rhythms and Dance (3) Instruction in the fundamental skills of folk, square, ballroom, and social dances, emphasizing personal skill acquisition and the skills necessary for teaching dances in the public/private school physical education environment. (Lec. 2, Lab. 2) Pre: admission to the teacher education program by the start of semester, or permission of chairperson.

g. ADD: PEX 322 Outdoor Leisure Pursuits (1) Principal philosophical foundations of adventure theory and wilderness leadership are examined while the student learns to teach outdoor leisure activities. Concepts of judgment, decision-making, leadership and environmentally sensitive
practices are introduced. (Lec. 1) Pre: 130 or 230, physical education teaching majors only; or permission of chairperson.

h. DELETE: Athletic Training Specialization

D. Curricular Affairs Committee Subcommittee on Student Writing

College of Arts and Sciences

Department of Sociology and Anthropology

ADD: Writing intensive designation "WI" to SOC 240 and SOC 336 taught by Professor Cunnigen

E. Section 8.81.62 of the UNIVERSITY MANUAL (the 4-year rule)

1. DELETE: The following courses:

APG 250
COM 301, 315
CMD 391, 392
ELE 392, 495
GER 441, 442, 452
GRK 109
JOR 430
LIN 101, 302
MGT 326, 422
MKT 408
MSI 301, 455, 470
NFS (FSN) 447
PLS 324, 463, 472
REN 336, 460, 470
TMD 238
2. RETAIN: The following courses:
INS 425 414, 433, 471, 491, 492, 493
MGT 402, 426, 437
MUS 431

SECTION III

Joint Report of the Curricular Affairs Committee and Graduate Council on 400-Level Courses.

At the January 29, 2001 meeting of the Curricular Affairs Committee and the February 2, 2001 meeting of the Graduate Council the following matters were considered and are now presented to the Faculty Senate.

A. Informational Matters

College of Engineering

Department of Electrical Engineering

1) CHANGE: Prerequisite for ELE 405 to "Pre: 306."

2) CHANGE: Method of instruction for ELE 436 to "(Lec. 3, Lab. 3)."

3) CHANGE: Description for ELE 447 to read as follows:

ELE 447 VLSI Design and Simulation ... Design and fabrication of custom integrated circuits. Techniques to synthesize and analyze logic systems. Hierarchical building blocks of basic cells. Layout, circuit extraction/simulation and design verification methods. (Lec. 3, Lab. 3) ...

B. Curricular Matters that Require confirmation by the Faculty Senate
1. College of Engineering

a. Department of Civil and Environmental Engineering

ADD: CVE 443 Intelligent Transportation Systems (3) Traffic systems operations/planning strategies; Advanced Transportation Management Systems; Detection Devices; Benefits and Evaluation; In-Vehicle Navigation Theory; Real-Time Dynamic Routing Issues. (Lec. 3) Pre: 346 or permission of instructor.

b. Department of Ocean Engineering

*1) CHANGE: Title, credits and description for OCE 416

OCE 416 Ocean Engineering Professional Practice (2) Introduction to professional practice in Ocean Engineering, including contemporary issues in the field, career planning and placement, life long learning strategies, professional licensure process, publication and presentation, and project management. (Lec. 2) S/U only.

*2) CHANGE: Title, credits, description and grading method for OCE 495:

OCE 495 Ocean Systems Design Project I (3) Capstone design of an ocean system under the direction of a faculty advisor. Project must include engineering, economic, environmental, safety, and societal considerations. This is first of a two course ocean engineering design sequence (495 and 496). Not for graduate credit.

3) ADD: The following courses:


*b) OCE 496 Ocean Systems Design Project III (3) Capstone design of an ocean system under the direction of a faculty advisor. Project must include engineering, economic, environmental, safety, and societal considerations. This is second of a two course ocean engineering design sequence (495 and 496).
c. Department of Ocean Engineering and Department of Civil and Environmental Engineering

ADD: OCE 422 (or CVE 422) Offshore Structure and Foundation Design
(3) Introduction to offshore structures and foundations, dynamic analysis, structural design for storms, design against fatigue failure, geotechnical site investigations, offshore foundation analysis and design. (Lec. 3) Pre: 421 and CVE 381 or permission of instructor. Not for graduate credit.

2. College of Human Science and Services

Department of Physical Education and Exercise Science

*ADD: PEX 415 Classroom Management, Communication, and Discipline Skills for Teaching Physical Education (3) Psycho-social bases of elementary and secondary student behaviors related to the physical education environment. Recognition of cultural differences and diverse communication styles, and techniques to decrease management episodes and increase student motivation. (Lec. 3) Pre: PSY 113, and PSY 232; 304 and 314, and admission to the teacher education program; or permission of department chairperson. Not for graduate credit.

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