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3-11-1982

## Curricular Report No. 1981-82-6 from the Graduate Council to the Faculty Senate

University of Rhode Island Faculty Senate

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UNIVERSITY OF RHODE ISLAND  
Kingston, Rhode IslandFACULTY SENATE  
BILLAdopted by the Faculty Senate

TO: President Frank Newman

FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled Curricular Report No. 1981-82-6 from the Graduate Council to the Faculty Senate

\_\_\_\_\_ ,  
is forwarded for your consideration.

2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on March 11, 1982  
(date)
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Regents, completing the appropriate endorsement below.
5. In accordance with Section 10, paragraph 4 of the Senate's By-Laws, this bill will become effective on April 1, 1982 (date), three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Regents for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Regents, it will not become effective until approved by the Board.

March 12, 1982  
(date)

W. Donald Rankin

W. Donald Rankin  
Vice Chairperson of the Faculty Senate

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ENDORSEMENT

TO: Chairperson of the Faculty Senate

FROM: President of the University

1. Returned.
2. a. Approved ✓.
- b. Approved subject to final approval by Board of Regents \_\_\_\_\_.
- c. Disapproved \_\_\_\_\_.

3/22/82  
(date)

F. Newman  
President

UNIVERSITY OF RHODE ISLAND  
The Graduate School

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1981-82-6

At its meeting No. 213 held February 12, 1982, the Graduate Council considered and approved the following matters which are now submitted to the Faculty Senate for confirmation as indicated.

I. Matters Requiring Confirmation by the Faculty Senate.

A. College of Engineering

1. Department of Electrical Engineering

a. Changes

ELE 506 Digital Signal Processing - prerequisite changed  
from: one course from 509, OCE 561, IDE 411 or MTH 451  
to: ELE 501 and 509

2. Department of Mechanical Engineering

a. Changes

MCE 551 Fluid Mechanics I - description changed to:

MCE 551 Fluid Mechanics I I,3  
Basic treatment of real fluid flows using the continuum mechanics approach. Exact solutions of the governing equations. Laminar shear flows and boundary layer theory, turbulent transition. (Lec 3) Pre: MCE 354 or equivalent. Dowdell, Hagist, Lessmann, White

MCE 552 Fluid Mechanics II - description changed to:

MCE 552 Fluid Mechanics II II,3  
Continuation of MCE 551 including turbulent modeling, turbulent shear flows and boundary layers, incompressible irrotational flows, and selected topics such as an introduction to non-Newtonian fluid behavior, geophysical flows, or numerical methods. (Lec 3) Pre: MCE 551. Dowdell, Hagist, Lessmann, White

MCE 553 Flow of Compressible Fluids - title and description changed to:

MCE 553 Fluid Mechanics III I,3  
Two and three dimensional compressible flows, numerical methods for the solution of compressible and incompressible parabolic and elliptic problems. Other advanced topics of current interest. (Lec 3) Pre: MCE 551 or permission of instructor. Dowdell, Hagist, Lessmann, White

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1981-82-6

3. Department of Civil and Environmental Engineering

a. Changes in Requirements for Ph.D. degree in Civil and Environmental Engineering

From: Program Requirements: Ph.D. qualifying examination. 30 course credits beyond the master's degree; one language; a three-course and a two-course minor from outside the department which may include work at the master's level.

To: Dissertation and comprehensive examination. The candidate's program committee may require a research tool or a foreign language which may be necessary for the candidate's program. The committee may also require a two-course minor outside area of specialization. Completion of a minimum of 24 course credits (including the two-course minor) beyond master's.

B. College of Arts and Sciences

1. Department of Geography and Marine Affairs

a. Deletion

GMA 503: Seminar in Climatology

GMA 542: Seminar in Economic Geography

GMA 604: Intergovernmental Relations: Coastal Resource Management

C.A.C. #186--82-2-24

2. College of Engineering

Department of Civil and Environmental Engineering

CHANGE: Description for CVE 470, 471 by deleting "Not for graduate credit."

3. Labor Studies Committee

\*ADD: LRS 490X Advanced Seminar in Labor Studies and Labor Relations (II,3) A seminar of varying format and focus, concerned primarily with one (or several) contemporary issues in labor studies and labor relations. (Sem. 3) Pre: Senior standing in labor studies or permission of instructor. Not for graduate credit. Staff

B. Curricular Matters Which Require Confirmation By the Faculty Senate

1. College of Arts and Sciences

a. Department of Botany

ADD: BOT 490 Modern Techniques in Botanical Sciences (I and II,2) Experience using the equipment and techniques of botanical research such as radio-isotopic tracers, analysis of organic and inorganic constituents, productivity, hydro botany, cell and tissue culture, and light microscopy. (Lec. 2, Lab. 4 for six weeks). May be repeated with different topic. Pre: major in biological science, junior standing and permission of instructor. Staff

b. Department of Geography and Marine Affairs

DELETE: The following courses:

- a) GMA 403 Meteorology and Climatology I
- b) GMA 404 Applied Meteorology and Climatology
- c) GMA 405 Introduction to Synoptic Meteorology and Climatology
- d) GMA 406 Microclimatology

c. Department of Geology

1) ADD: The following courses:

- a) GEL 401 Ore Deposits (II,3) Origins of metallic ore deposits; factors localizing deposits; mining methods; uses of metals; environmental effects; discussion of specific metals and mining districts. (Lec. 2, Rec. 1) Pre: 301 or 320 or equivalent or permission of instructor. Offered in Spring of odd calendar years. Next offered Spring 1983. Cain
- b) GEL 422 Intermediate Mineralogy--Petrology (I,3) Continuation of crystallography, petrography, mineral/rock groups and petrologic techniques. Emphasis on mineral/rock suites. (Lec. 2, Lab. 2) Pre: 321. Offered in fall of even calendar years. Hermes

C.A.C. #186--82-2-24

2) DELETE: GEL 425 Principles of Geochemistry

2. College of Engineering

Department of Mechanical Engineering and Applied Mechanics

ADD: MCE 465 Experimental Stress Analysis (I,3) Theory and application of various stress analysis techniques like strain gages, brittle coatings, two dimensional photoelasticity etc.; significance of stress analysis in the engineering design of load resisting members. (Lec. 2, Lab. 3) Pre: CVE 220, PIIV 214. Shukla and Dally