12-7-1972

GRADUATE COUNCIL CURRICULAR AFFAIRS COMMITTEE REPORT #72-73-1

University of Rhode Island Faculty Senate

Serial Number 72-73-9

UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

TO: President Werner A. Baum

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled GRADUATE COUNCIL CURRICULAR AFFAIRS COMMITTEE REPORT #72-73-1 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 72-12-7 (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 8, paragraph 2 of the Senate's By-Laws, this bill will become effective on 72-12-28 (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.

72-12-12 (date)

Stephen B. Wood /s/
Chairman of the Faculty Senate
Stephen B. Wood

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.

2. Approved ✓. Disapproved _____.

3. (If approved) In my opinion, transmittal to the Board of Regents is not necessary.

12/14/72 (date)

Werner A. Baum /s/
President

(OVER)

Form Revised 6/71

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents.

FROM: The University President

1. Forwarded.

2. Approved.

_____ _____/s/
(date) President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Regents, via the University President.

1. Forwarded.

_____ _____/s/
(date)

_____
(Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Regents.

_____ _____/s/
(date) President

Original received and forwarded to the Secretary of the Senate and Registrar for filing in the Archives of the University.

_____ _____/s/
(date) Chairman of the Faculty Senate

UNIVERSITY OF RHODE ISLAND
The Graduate School

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE
Report No. 1972-73-1

At its Meetings Nos. 101 on September 29, 1972 and 102 on October 20, 1972, the Graduate Council considered and approved (where necessary) the following curricular matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

I. Matters of Information (For further details, consult the chairman of the department concerned.)

A. College of Engineering and College of Arts & Sciences

1. Departments of Mechanical Engineering and Geology

MCE(GEL) 596X - Progagation of Stress Waves in Solids with application within Rock Dynamics II, 3. Fundamental equations of wave propagation in elastic and visco-elastic materials. Solution of basic problems. Interpretation of experimental results. (Signal analysis) Physical behavior of rocks comparatively close to explosions. Prediction of safe distances. Collapse criteria for cavities in rocks. (Lec 3) Prerequisite: Permission of Instructor. Persen. (This experimental, intercollegiate course has been approved by the Deans of the Colleges and the Vice President for Academic Affairs for offering in the Spring of 1973.)

B. College of Engineering

1. Department of Mechanical Engineering

MCE 660X - Seminar in Fluid Mechanics II, 3. Class discussion of selected topics in fluid mechanics based on extensive reading in the current scientific literature. The topics discussed will be, in part, determined by those registering for the course. Invited lecturers will supplement student reading and presentations. (Lec 3) Prerequisite: MCE 552 or permission of instructor (Prof. Dowdell will present this course in its first experimental offering which has been approved by the Dean of the College of Engineering for Spring 1973.)

MCE 518X - Atmospheric Fluid Mechanics II, 3. A fundamental formulation of the basic fluid mechanic and thermodynamic processes occurring in the atmosphere; including hydrostatic equilibrium and stability, horizontal frictionless flows, diffusion phenomena in the planetary boundary layer and selected topics of student interest. (Lec 3) Prerequisite: MCE 341 and 354 or equivalent (This experimental course has been approved by the Dean of the

College of Engineering for offering in the Spring of 1973.)

II. Matters Requiring Confirmation by the Faculty Senate

A. College of Engineering

1. Department of Electrical Engineering

a. Add (New) - to be cross-listed with Department of Mechanical Engineering and Applied Mechanics

ELE(MCE) 503 - Linear Control Systems I or II, 3. Concepts of controllability and observability, state feedback, quadratic performance indices and optimal linear control, frequency response properties of optimal feedback regulators, observer theory and state reconstruction, state estimation (Kalman-Bucy filter), separation theorem and modern control system design. (Lec 3) Prerequisite: ELE 501 or equivalent. Lindgren, Palm.

b. Change

ELE 501 - Linear Circuit Theory - change of title only to "Linear Systems Theory"