

11-21-1968

## 49th Report of Curricular Affairs Committee

University of Rhode Island Faculty Senate

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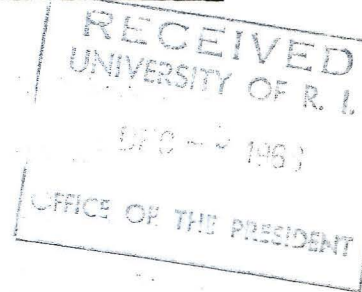
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Serial Number #228  
UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate



TO: President Werner A. Baum

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled 49th Report of Curricular Affairs Committee

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 November 21, 1968 (date) (recessed meeting)

4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Trustees, 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 December 12, 1968 (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 Trustees for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Trustees, it will not become effective until approved by the Board.

December 2, 1968  
(date)

Agnes G. Rosdy /s/  
Chairman of the Faculty Senate

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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 Trustees is not necessary.

12/12/68  
(date)

Werner A. Baum /s/  
President

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.
2. Approved.

\_\_\_\_\_/s/  
(date) President

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ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

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

1. Forwarded.

\_\_\_\_\_/s/  
(date) \_\_\_\_\_  
(Office)

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ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

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

\_\_\_\_\_/s/  
(date) President

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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

Kingston, Rhode Island

Faculty Senate Curricular Affairs Committee, Forty-ninth Report (full)

At its meeting on October 31, 1968, the Faculty Senate Curricular Affairs Committee considered the following 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. From the College of Engineering

1. Department of Industrial Engineering. I.E. 22 Plant Design. Change time distribution from Lecture 2, Lab. 3, to Lecture 3.
2. Department of Mechanical Engineering and Applied Mechanics. M.E. 126 Advanced Mechanics of Materials. Change prerequisite from M.E. 24 to C.E. 21.

B. From the College of Arts and Sciences

1. Department of Political Science. Pol. Sci. 101. European Comparative Government. Change title and description to read:  
Pol. Sci. 101 Comparative European Politics  
Semesters I and II, 3 credits  
Analysis of concepts and methodologies relative to the study of Comparative Politics. Utilizing a structural - functional approach, surveys the formal and informal features of the political systems of Great Britain, France, Germany and one other country (either Switzerland, Italy or Sweden).

II. Matters Requiring Confirmation by the Faculty Senate.

A. From the College of Arts and Sciences

1. Department of Chemistry

- a. Eliminate Chemistry 132. Chemical Kinetics from the undergraduate requirements for the B.S. degree in Chemistry.  
(This course is no longer required by the Committee on Professional Training of the American Chemical Society).
- b. Reduce the number of required credits for the B.S. degree in Chemistry from 139 to 137.
- c. Recommendations a. and b. above will become effective for the Spring Term, 1970.

2. Departments of Geography and Geology

a. Add (new)

Earth Science 1. Principles of Earth Science

Semesters I and II 3 credits

The earth as a globe, the geographic grid, map projections map reading; the oceans; the atmosphere, weather, and climates; vegetation; soils; land use. (Lec. 2, Lab. 2). Not open to students who have passed Geog. I. Geography staff.

b. Earth Science 2. Principles of Earth Science

Semester I and II, 4 credits

Introduction to: The materials which make up the solid earth; the processes which act upon them and their resulting land forms; major geological concepts employed in the interpretation of earth history, and the development of life. (Lec. 3 Lab. 2). Not open to students who have passed either Geol. 8, 9, or 21. Geology staff.

(Note: This course, combined with Chem. 9 or Physics 9 satisfies the physical science requirement for the B.A. curriculum in the College of Arts and Sciences).

Note: both a. and b. above will be listed under a new catalog heading, Earth Science, and both will be cross-listed under Geography and Geology. Neither course is a prerequisite for the other.

c. Contingent upon approval of a. and b. above, and effective Fall, 1969:

1. Delete: Geog. 1 Physical Geography from University catalog offerings, although this course may still be offered in the Extension Division and Summer sessions.  
Geol. 9. Basic Principles of Geology.

2. Change in curriculum.

Contingent upon approval of both Earth Science 1 and Earth Science 2, the Department of Geography requests the substitution of Earth Science 1 and 2 (3 credits each) for Geography 1 - Physical Geography (3 credits) in the curriculum for the B.A. Major in Geography. This change would become effective for students entering the program in September, 1969, or later.

3. Change in prerequisites.

Effective 1969-70, Earth Science 1 would be substituted for Geography 1 in the prerequisites for Geography 103 and 104, and the Earth Science 1 and 2 sequence would be substituted for Geography 1 in the prerequisites for Geography 142, 143, 144, and 151.

3. Department of Languages

French 135, 136. Change number and description to read:

French 235, 236. French Literature of the Sixteenth Century.

Semester I and II, 3 credits.

Special attention to principal literary movements of the century as illustrated by leading writers of the period.

Prerequisite: French 12. In alternate years, next offered 1969-70.  
Rothschild.

4. Department of Zoology

Add (new)

Zoology 262 Seminar in Behavioral Ecology.

Semester I, 1 credit.

Special topics in the relationships between animal behavior and ecology, such as social organization of animals, evolution of behavior, competition and habitat selection. Discussion and presentation of individual reports. (Lec. 1).

B. From the College of Engineering

1. Department of Mechanical Engineering and Applied Mechanics and Department of Chemical Engineering

Add (new)

Ch.E./M.E. - 345. Boiling Heat Transfer and Two-Phase Flow.

Semester 1, 3 credits.

A study of nucleation and bubble growth, pool boiling, and flow boiling. The hydrodynamics of two-phase flow, the boiling crisis, and instabilities in boiling systems.

(Lec. 3) Prerequisite: M.E. 259, Ch.E. 244, or permission of the instructor. In alternate years. Madsen and Test.

2. Department of Chemical Engineering

Authorize a graduate program leading to the Master of Science degree in Nuclear Engineering.

Comment:

The College of Engineering initiated a program of graduate courses in nuclear engineering in 1961 and established a nuclear engineering laboratory. With grants from the Atomic Energy Commission in 1961 and 1965 and with state funds, the laboratory has been furnished with modern specialized teaching and research equipment. In 1967 the University qualified as a participating institution for the A.E.C. Special Fellowship.

The facilities of the Rhode Island Nuclear Science Center are available to faculty and students and include a one (1) megawatt swimming pool reactor. The reactor is used for a large portion of Nu.E. 286 Nuclear Reactor Laboratory and for special problems and thesis problems.

The program will be administered by the Department of Chemical Engineering in cooperation with a College of Engineering Committee set up in 1967 to stimulate and coordinate college activities in the nuclear field.

Students pursuing the M.S. Degree in Nuclear Engineering will be expected to satisfy the general requirements of the Graduate School. The program will require a minimum of 30 credits, a maximum of six credits will be given for a master's thesis, and a prerequisite for graduate study in Nuclear Engineering will be a bachelor's degree in engineering or physics or the equivalent.

Available and planned facilities will permit research on thesis topics in the following problem areas:

- a. Boiling Heat Transfer
- b. Nuclear Heat Transfer
- c. Dosimetry
- d. Spectrometry
- e. Reactor Design and Evaluation
- f. Shielding
- g. Nuclear propulsion
- h. Desalination
- i. Radiation Effects
- j. Nuclear applications
- k. Nuclear Fuel Processing

Available courses suitable for M.S. program in Nuclear Engineering:

- a. Nu. E./Ch.E.; 100, 200, and 300 level, 11 courses
- b. Supporting courses in other areas
  1. Chemical Engineering (other than those in a.), 14 courses
  2. Civil Engineering, 22 courses
  3. Computer Science, 4 courses
  4. Electrical Engineering, 18 courses
  5. Industrial Engineering, 7 courses
  6. Mathematics, 18 courses
  7. Mechanical Engineering and Applied Mechanics, 23 courses
  8. Ocean Engineering, 7 courses
  9. Physics, 13 courses

C. From the Curriculum in Community Planning and Area Development

Add (new)

Community Planning 351, 352 Planning Seminar

Semester I and II 3 credits

Group and/or individual investigation of special problems in City and Regional Planning.

Community Planning 391, 392 Special Problems

Semester I and II

1-6 credits

Advanced work, under the supervision of a member of the staff and arranged to suit the individual requirements of the student. Prerequisite: permission of the instructor.