

4-16-1970

62nd Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

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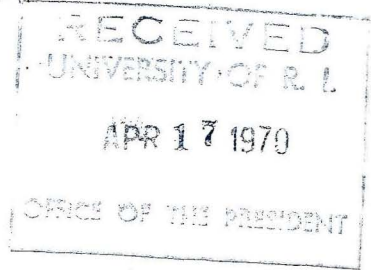
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UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate



TO: President Werner A. Baum

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled 62nd Report of the 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 April 16, 1970 (date)

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 May 7, 1970 (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.

April 17, 1970 (date)

Walter C. Mueller /s/ Chairman of the Faculty Senate

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.

2. Approved [check] Disapproved

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

5/12/70 (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

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Trustees, 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 Trustees.

_____/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
KINGSTON, RHODE ISLAND

April 7, 1970

Faculty Senate Curricular Affairs Committee Sixty-second Report (full).

At its meeting on April 2, 1970, 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. College of Arts and Sciences.

1. Department of History.

a. Change description of 481(167) to read:

481(167) History of Colonial Latin America I, 3 crs.
The European background, native cultures, conquest and settlement of Latin America, together with political, economic and social development of the area, concluding with wars for independence. (Lec. 3) Bryan (Grad. #69).

b. Change title and description of 482(168) to read:

482(168) History of Modern Latin America II, 3 crs.
Continuation of History 481(167), covering Latin American history from independence to the present time. (Lec. 3).
Bryan (Grad. #69).

2. Department of Languages.

Change course descriptions of French 503(271), 504(272), 511(231), 512(232), 521(235), and 522(236) by deleting references to alternate year offerings.

B. College of Business Administration (by memo from the Office of the Dean).

At the March meeting of the Senate the proposed title of the Management Department "Organizational Management, Industrial Relations and Law" was referred back to the College of Business faculty for review.

At the April 1 meeting of the College of Business faculty it was unanimously voted to name the new department, "Organizational Management and Industrial Relations."

C. Graduate Curriculum in Community Planning and Area Development.

Change description of CP 411(110) by adding "not open to students who have received credit for CP 410 (new).

II. Matters Requiring Confirmation by the Faculty Senate. Course numbers in parentheses will not be used for registration purposes after Sept., 1970.

A. College of Arts and Sciences.

1. Department of Languages.

a. Add (new).

French 502 Stylistics II, 3 crs.
Emphasis on acquisition of ability to write at length in an acceptable literary style. Each student will be expected to prepare a study of monograph length on an appropriate subject. Prerequisite: French 501 or equivalent. Porter (Grad. #69)

b. Delete, contingent upon approval of Fr. 502:

French 273 Structure of the French Language II, 3 crs.
Intensive study of the phonological, morphological and syntactic systems of present-day standard French. Attention to changes now in progress. Porter (Grad. #69)

2. Department of Political Science.

a. Add (new).

1) 443 20th Century Political Theory I, 3 crs.
A study of the important political theorists of this century, particularly as they interpret the basis of political obligation and weigh the question of violent political change. Among the theorists considered are Freud, Camus, Arendt, Niebuhr, Marcuse, Lassewell, Ghandi, and Mao Tse-tung. (Lec. 3) Prerequisite: Political Science 341 and 342, or permission of the Department. Killilea (Grad. #69)

2) 544 Democracy and Its Critics I, 3 crs.
A seminar examining the roots of modern democracy in the social contract theorists and analyzing the quality and limits of self-determination in these theories in the light of contemporary politics. (Lec. 3) Prerequisite: Political Science 341, 342, or permission of the Department. Killilea (Grad. #69)

3. Revise the new (FSCAC Report No. 59) B.A. Curriculum as follows:

Change: that portion of the new B.A. requirements which reads:
Concentration will consist of no fewer than 27 credits, but no department may mandate more than 30 credits for a concentration.
to:

Concentration will consist of no fewer than 27 credits, but no department may mandate more than 30 credits for a concentration (exclusive of required prerequisites offered by other departments). The number of credits required for concentration inclusive of prerequisites in other departments may not exceed 36.

Change that portion of the new B.A. requirements which reads:

Electives (45-48)

The student will elect courses sufficient in credits to complete the 120 credits required for graduation. Courses may be taken in any college. Not more than 15 credits may be taken in the concentration.

to:

Electives (39-48)

The student will elect courses sufficient in credits to complete the 120 credits required for graduation. Courses may be taken in any college. Credits (9-18) may be taken in the concentration up to a maximum of 45 credits inclusive of all courses and their prerequisites mandated by a department.

Comment: The new B.A. requirements as approved by the Faculty Senate place a number of limits upon the numbers and types of courses which can be used to fulfill distribution and concentration requirements. Specifically, "Concentration in a subject is defined as including not only these courses in a department, but also courses in related subjects offered by the student or required by the department in satisfaction of the concentration requirements." It must be noted that it is also explicitly stated that "Under no circumstances may concentration courses be used to fulfill distributional requirements."

For most concentrations the above restrictions present no unusual problems. Unfortunately, there are several programs: Biology, Chemistry, Education, Geology, and Physics: which must prescribe as prerequisites to required courses a substantial number (6-8 hours) of mathematics, physics, chemistry, or social science courses outside the department. Obviously, since the ceiling on the number of required credits in an area of concentration is 30, the above programs will be, in effect, limited to 22-24 hours in the subject area.

B. College of Engineering. (see 61st. Report, items III.C.1. and 2. and addendum).

1. Department of Chemical Engineering.

a. Add (new) (Grad. #67)

- 1) 530 Polymer Chemistry I, 3 crs.
Polymer structure, molecular forces, glass and crystalline transitions, solution properties, polymerization kinetics, molecular weight distribution, fractionation, viscoelastic properties and transport processes. (Lec. 3) Prerequisite: Chem. 22 and Chem. 32 or permission of instructor. Barnett
- 2) 531 Polymer Engineering II, 3 crs.
Polymer processing and mechanical properties of polymers (Lec. 3) Prerequisite: Ch.E. 530 and Ch.E. 42 or 44 or permission of instructor. Barnett

- 3) 640 Transport Phenomena I I, 3 crs.
Analysis of transport processes in fluids with emphasis on diffusion of matter. (Lec. 3) Prerequisite: Math. 44 and Ch.E. 43, or permission of the instructor. Barnett
- 4) 641 Transport Phenomena II II, 3 crs.
Interphase transfer, turbulent transport processes and boundary layer theory, with application to fixed and fluid bed processes, biochemical, biomedical and electrochemical systems. (Lec. 3). Prerequisite: Ch.E. 640. Barnett

2. Department of Electrical Engineering.

a. Add (new) (Grad. #68)

- 1) EE 514 Microwave Electronics I or II, 3 crs.
Electronic engineering at microwave frequencies, microwave circuit theory, impedance transformation and matching, passive microwave devices, microwave tubes, semiconductor microwave electronics, microwave masers, parametric amplifiers. (Lec. 3) Prerequisite: EE125 concurrently or permission of instructor. Daly
- 2) EE 515 Quantum Electronics I or II, 3 crs.
Laser engineering and applications, interaction of radiation with atoms, optical resonators, electro-optic modulation, harmonic generation, parametric oscillation and frequency conversion, noise in laser amplifiers and oscillators. (Lec. 3) Prerequisite: Phys. 71. Daly
- 3) EE 516 Planetary Electrodynamics I or II, 3 crs.
An introduction to the description and theory of natural electric and magnetic phenomena on the earth and in the solar system such as lightning, natural geomagnetic and interplanetary magnetic fields, origin and properties of ionospheres, the "Solar Wind" and natural radio noise. (Lec. 3) Prerequisite: EE 211(511) or Physics 261(562) Polk
- 4) EE 545 Optimization and Variational Problems in Electrical Engineering I or II, 3 crs.
Application of variational and approximation techniques to boundary value field problems, extremal control of dynamic systems, and optimization in communication theory. Performance criteria, Hamilton-Jacobi theory; moment, Ritz and Galerkin methods; Weinstein and Bazly methods for determining the upper and lower bounds of eigenvalues in engineering problems; optimal filter theory. Prerequisite: EE 501(201) or 511(211) or permission of instructor. Poularikas

C. College of Home Economics.

1. Department of Food and Nutritional Science.

a. Add (new) Summer Session, 1970 (Grad. #68; A&S 3/11/70)

902 (Education 902) Teaching Nutrition Workshop 3 crs.
Methods of presenting nutrition information in classes in science, social studies, history, etc. School feeding and federal programs and policies will be studied. Team teaching, group discussions and field trips characterize the course. Each participant is expected to develop an individual portfolio for his or her own classroom use.
(for grad. program credit)

D. College of Pharmacy.

1. Department of Pharmacy Administration.

a. Change level of instruction, number, and title of 52 Management and Merchandising to read:

451(52) Pharmacy Administration Principles (approved as 151 by Grad. #59)

b. Change level of instruction, number, and title of 53 Drug Marketing to read:

453(53) Drug Marketing Principles (approved as 153 by Grad. #59)

E. College of Resource Development.

- ✓ 1. Authorize the merger of the Department of Agronomy and Mechanized Agriculture and the Department of Horticulture into a single department.
- ✓ 2. The new department thus formed shall be called Department of Plant and Soil Science.

F. College of Arts and Sciences and College of Resource Development.

✓ Authorize an interdisciplinary Graduate Certificate Program in International Development Studies (Grad. #69)

Comment: On May 21, 1968, at the request of a number of faculty members, the Planning Committee on International Studies appointed its Subcommittee No. 4 to study the advisability and feasibility of a Graduate Certificate Program in Development Studies at the University of Rhode Island. Members of the Subcommittee were: Leon F. Bouvier (Sociology), William R. Campbell (Political Science), Samuel Decalo (Political Science) - Coordinator, Joel Dirlam (Economics), David Fischer (Food and Resource Economics), Aloys A. Michel (Geography), Vinod Prakash (Economics), Arthur Stein (Political Science), and Daniel Wilkes (Political Science).

The Subcommittee met throughout the fall, winter and spring of 1968-69 and issued a Final Report on April 21, 1969 recommending that a Graduate Certificate Program in Development Studies be set up under the sponsorship of the Departments of Economics, Geography, and Political Science in the College of Arts and Sciences, and the Department of Food and Resource Economics in the College of Resource Development.

This report was accepted by the Departments of Economics, Geography, and Political Science and endorsed by the Planning Committee. It reached the Curriculum Committee of the College of Arts and Sciences too late for action in the Spring. Over the summer of 1969, changes in personnel and course planning and further discussions with the Department of Food and Resource Economics led to significant changes and improvements in the proposal. The April 1969 version was, therefore, withdrawn from the Arts and Sciences Curriculum Committee on October 20, 1969. The present version, offered in its place, calls for a program to be initiated in the Spring of 1971 when the core seminars and courses would be offered simultaneously for the first time. In particular, with the support of the International Center for Marine Resource Development, Professor Prakash will then be able to offer Economics 566-Economic Planning and Public Policy in Developing Nations - for the first time. As is indicated on page 5, there may be some further modification of the program by that time (subject to approval by the Graduate Council) but what is presented here includes only existing courses or those (Anthropology 422, Economics 566) which are currently in the approval process and for which no net increase of University resources is required.

Questions concerning the Graduate Certificate Program in Development Studies may be addressed to the Chairman of the participating departments, the Coordinator of Subcommittee No. 4 (Professor Decalo) or the Chairman of the Planning Committee on International Studies (Professor Michel).

(The FSCAC suggested the addition of the word International to the original title to more clearly implicate the "socio-economic and political" nature of the program).

C. Graduate School of Oceanography.

1. Add (new).

- a. Ocean. 612 Experimental Geophysical Hydrodynamics I, 3 crs.
A study of laboratory experiments relating to the motion of oceans and atmospheres. Comparison of effects of rotation and stratification. Selected topics of thermal convection, thermohaline convection, inertial waves, rotational and boundary layer phenomena. Emphasis on experimental research techniques and preparation of technical reports. (Lec. 2., Lab. 3)
Prerequisite: permission of instructor. Lambert (Grad. #69)

- b. Ocean. 623 Physical Chemistry of Seawater I, 3 crs.
The characterization of dissociation, solubility and redox equilibria in seawater will be examined. Other topics include partial molar volumes, conductivity and diffusion of ions in seawater. Kinetic studies in seawater and the effects of temperature, salinity and pressure on physicochemical properties in seawater will also be considered. (Lec. 3) Prerequisites: Ocean. 521, and Chem. 32, or permission of the instructor. Kester (Grad. #69)

H. Dean of the Graduate School: confirm the approval action of the Graduate Council concerning the recommendations made to that body by a special committee created to study the Master of Biological Science Program. In its report, the committee reviewed the major developmental, functional and administrative aspects of the program and made the following recommendations: (#1 was approved and #2 and #3 were endorsed by the Graduate Council at meeting #68).

- 1) The MBS program be discontinued after the presently enrolled participants have completed or left the program.
- 2) From September 1969 on, teachers in service needing enrichment in subject matter should be guided into the M.A. Science Education program.
- 3) Liason between the Education Department and the various biological sciences departments should be maintained sufficiently to insure the servicing of these people by that program. From the point of view of the biology departments it would seem appropriate that a major effort of the program should be in the direction of correcting elementary subject matter deficiencies and in providing breadth of experience. Further, it would appear desirable to retain the research aspect of the present program.

I. Dean of the Graduate School (this item has not been reviewed by the FSCAC).

Confirm the approval action of the Graduate Council (#67) for a reduction in credits from 36 to 30 for the non-thesis M.A. Degree option in Economics.

Comments regarding the 36-credit requirement: (Dept. of Econ.)

- a. it forces many students (particularly graduate assistants) into a second full year. The additional time and expense is more than they are willing to incur so they go elsewhere.
- b. the 36 hours requirement is excessive compared to other departments of economics in the region and country.
- c. it is not necessary.