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Graduate Council Affairs Report, #70-71 - 6

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UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

RECEIVED
UNIVERSITY OF R. I.
FEB 23 1971
OFFICE OF THE PRESIDENT

TO: President Werner A. Baum
FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled Graduate Council Curricular Affairs Report,
#70-71 - 6.

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 February 18, 1971
(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 March 11, 1971 (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.

February 19, 1971
(date)

Walter E. Truvello /s/
Chairman of the Faculty Senate

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.
2/23/71 (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
The Graduate School

Report #70-71-6

Feb 8, 1971

CURRICULAR REPORT FROM GRADUATE COUNCIL TO THE FACULTY SENATE

At its Meeting No. 81 on February 5, 1971 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.)

German 441, 442, 451, 452, 431, 481, 482, 483: change prerequisite to "German 206(12) or equivalent"

CSC 502(202): change prerequisite to CSC 413

CSC 410(110): change prerequisite to Math 142(42) and CSC 201(10)

Geol 561(205): change to Sem I of even calendar years

Geol 585(241): change to Sem I of odd calendar years

Geol 430(115): change prerequisite to "Geol 420, Chem 110 and concurrent registration in Geology 421, or permission of the instructor"

Geol 470(142): change prerequisite to "Geol 103 and 104, or ESC 102 and Math 141, or permission of the instructor"

II. Matters Requiring Confirmation by the Faculty Senate:

A. College of Pharmacy

a. Number Change

PhChem 401 to PhChem 501 and PhChem 433 to PhChem 533

B. Graduate School of Oceanography

a. Add (New)

Ocean 509: Marine Pollution Semester II 2 credits

Biological, chemical, and physical aspects of selected agricultural, industrial, and domestic effluents in the marine and estuarine environment. Case histories emphasizing toxicological effects. The concept of bioassay as an analytical tool is developed through demonstrations and discussion. (Lec 2) Prerequisites: Oceanography 401 or permission of instructor.

C. Graduate Library School

a. Add (New)

LS 545: Technical Information Centers Semesters I and II, 3 cr

Study of the new technical information centers which provide publication, consultant, and question-answering services, emphasizing the differences between them and technical libraries and professional societies. (Lec 3) Bohnert

D. College of Arts & Sciences

I. Department of Botany

a. Add (New)

Botany 540: Experimental Mycology Semester I, 4 credits

Growth and reproduction of fungi as affected by nutritional, environmental and genetic factors, with emphasis on experimental methods. (Lec 2, Lab 4)

Prerequisites: Bot 432 or Microbiology (BAC 201) or permission of the instructor.

Alternate years, next offered 1971-72 Goos

D. College of Arts & Sciences (continued...)I. Department of Botany ("

Botany 542: Medical Mycology Semester II, 3 credits

Study of fungi pathogenic for man and animals. (Lec 2, Lab 2) Prerequisite: Botany 432 or Microbiology 201 or permission of the instructor. Goos

Botany 631-635: Advanced Mycology Seminars Sem I, II 2 credits each
Specialized and advanced treatment and research in the major groups of fungi: cellular and acellular slime molds; phycomycetes; ascomycetes; basidiomycetes; deuteromycetes. (Lec 2) Prerequisites: permission of the instructor. Bot 631- Cellular and acellular slime molds- will be offered in 1971-72. Goos

Bot 562: Seminar in Plant Ecology Sem II, 2 cr

Discussion of recent topics and investigations pertinent to plant ecology. Involves library research, oral presentation of reports and group discussions. (Lec 2) Prerequisites: Bot 424 or equivalent and permission of the instructor. Next offered 1971-72. Halvorson

b. Changes

Botany 133: Field Mycology to be changed as follows:

Botany 433: Field Mycology Summer only, 3 credits

A basic course involving methods of collecting, preserving, and identifying fungi and the use of literature. Emphasis on higher fungi. (Lec 1, Lab 4) Prerequisite: Bot III or Bio 101 or the equivalent. Goos

Botany 432(132): Mycology: Introduction to the Fungi to be changed as follows:

Botany 432(132): Mycology: Introduction to the Fungi Sem I, 4 cr

Basic course in identification, structure, cytology, development and distribution of fungi. Recognition of types important in organic decomposition, disease, medicine, industry and as food. Prerequisite: Bio 101 or Bot III (Lec 2, Lab 4) Goos.

Botany ⁶⁶¹662 to be cross listed with Oceanography ⁶⁶¹662: Phytoplankton Taxonomy

Botany 663 to be cross listed with Oceanography 663: Phytoplankton Physiology

Botany 664 to be cross listed with Oceanography 664 and change in title and description to read as follows:

Botany 664 and Oceanography 664: Phytoplankton Ecology Sem II 4 cr

Biology, ecology, methods of investigation and introductory systematics of the pelagic marine microscopic plants are considered; stress on their adaptations, physiological ecology, distribution, succession, production, and regional and seasonal dynamics. (Lec 3, Lab 3) Prerequisite: Permission of the instructor. Smayda

Botany 667-669 to be cross listed with Oceanography 667-669: Advanced Phytoplankton Seminars

2. Department of Chemistry

a. Add (New)

Chemistry 421: Advanced Organic Chemistry Sem I, 3 cr
Emphasis on fundamental organic structural theory and reaction mechanisms.
(Lec 3) Prerequisite: Chemistry 228 and 230. Vittimberga

Chemistry 522: Advanced Organic Chemistry Sem II, 3 cr
A study of modern synthetic reactions and their applicability to such areas as natural products and heterocyclic chemistry. (Lec 3) Prerequisite: Chemistry 421 or permission of the instructor. Abell

b. Change

Chemistry 521 to Chemistry 621: Carbanion Theory, Sem I, 3 cr
Modern theories of organic chemistry pertaining to carbanion reactions such as hydrogen transfer, displacement, additions to multiple bonds, eliminations, and condensations. (Lec 3) Prerequisites: Chem 522 or permission of the instructor. In alternate years, next offered 1972-73. Mackenzie

c. Deletion

Chemistry 422: Organic Reactions

3. Department of Computer Science & Experimental Statistics

a. Add (New)

CSC 413: Data Structures Sem I, 3 cr
Formal data structures. Algorithms for handling such common structures as arrays, linear lists, trees and multi-linked lists. Searching and ordering techniques. Data management systems. Data structures in programming languages. (Lec 3) Prerequisites: CSC 410, Math 215. Staff

CSC 512: Advanced Programming Systems Sem I, 3 cr
An advanced analysis of monitor and executive systems. Several topics from CSC 412 will be studied in greater depth, along with a study of recent developments in the field. (Lec 3) Prerequisite: CSC 412 and CSC 413. Bass, Tetreault

CSC 515: Theory of Computation Sem II 3 cr
Turing machines, recursive functions, Shepardon-Sturgis machines, Universal Turing machines, Church's Thesis, standard indexing, decision and halting problems, recursive sets, recursively enumerable sets, automata, computational complexity, Post productions. (Lec 3) Prerequisite: CSC 412 and permission of the instructor. Bass

EST 500: Nonparametric Statistical Methods Sem II, 3 cr
Inference problems arising when sampling from populations that are not assumed to have a particular functional form. Topics covered include: Rank and sign tests, permutation tests and randomization, estimation, and comparison with parametric procedures. Examples illustrating the applications of nonparametric techniques. (Lec 3) Alternate years, next offered 1970-71. Prerequisites: EST 411 and Math 451, or permission of the instructor. Lawing, Hanumara

3. Department of Computer Science & Experimental Statistics (cont...)

b. Change

CSC 411(III) to read as follows:

CSC 411(III): Computer Organization and Programming Sem I, 3 cr

Logical structure of computer systems, information representation, instruction codes, arithmetic and logical operations, flow of control. Assembly language programming, input-output, subroutines, linkages, macros, conditional assemblers. (Lec 3) Prerequisite: CSC 410 or equivalent. Tetreault & Carrano

CSC 412(II2) to read as follows:

CSC 412(II2): Programming Systems Sem II 3 cr

Structure of monitor and executive systems, time-sharing systems, real-time systems, input-output systems, file organization and manipulations, command languages. (Lec 3) Prerequisite: CSC 411 Tetreault

4. Department of Education

a. Add (New)

Education 901: Workshop in Health Education for Elementary School Teachers Summer Session, 1971 only, 4 cr

This workshop is designed for elementary school teachers. Emphasis will be placed on developing conducting and evaluating health education programs in elementary schools. Sessions will focus on philosophy, principles and concepts of health education. Hours will be 9:00 AM to 12 noon and 1:00 PM to 3:00 PM. Dates: June 28-July 10. (Lec 2, Lab 3) Prerequisites: Primary or Secondary Teacher. Director: Dr. W. F. Kelly

b. Change

Education 694 to be changed to Education 594: Organization & Supervision of Reading Programs

Education 695-696 to be changed to Education 595-596: Advanced Practicum in Reading

5. Departments of Economics, PoliSci, Geog, Soci-Anthro, & Resource Econ

a. Add (New)

Economics 595: Problems of Modernization in Developing Nations Sem II 3 cr Contributions from Economics, Geography, Political Science, Resource Economics and Sociology-Anthropology. Varying regional emphasis. Selected

problems involved in the environmental complex, agricultural systems, population dynamics, distribution systems, political integration, urbanization-industrialization, popular participation, integrated theories of modernization. (Lec 3) Prerequisite: Permission of the instructors. Brand, Lampe, Landberg, Milburn, Suzawa, Prakash.

(The principal catalog listing will be under Economics with cross listings under the other departments involved).

(A separate request for this course was received from the College of Resource Development and was approved.)

b. Deletion

Both ECN-GEG-REN 565 and PSC 410 will be deleted upon final approval and implementation of ECN 595. For the Certificate Program, PSC 420 will be substituted for PSC 410 in the Spring of 1971.

6. Department of Languages (German)

a. Change

German 409(171) change to read as follows:

German 409(171): History of the German Language Sem I, 3 cr

Development of the German language from early Germanic to modern German.

Emphasis on cultural influences on linguistic change. (Lec 3) Prerequisite:

German 206(12) or permission of the instructor. In alternate years, next offered 1971-72. F. Woods

7. Department of Geology

a. Change

Geology 490(162) to be changed as follows:

Geology 490: Senior Thesis Sem I & II 3 cr

Introduction to independent research. Student will have ample freedom in selection of an area of study and will work in close conjunction with a faculty member of his own choice. (Lab 6) Prerequisite: senior standing and permission of the instructor. Not for graduate credit. Staff

Geology 581 (OCE 581) (215) to be changed to:

Geology 581 (OCE 581) (215): Coastal Engineering Geology Sem II 3 cr

Discussion of the interaction of geological factors and coastal structures. Shore materials, energy-material relationships, and the interference of man-made structures with the natural regimen will be emphasized. (Lec 3) Prerequisite: Geology 302 or 410, or Ocean 540, or permission of the instructor. Offered in spring of even calendar years. J.J. Fisher

b. Deletion

Geology 515(212) Pleistocene Geology

Geology 525 (281): Analytical Geochemistry

E. College of Resource Development1. Department of Resource Economics

a. Change

REN 514: Economics of Marine Resources: change prerequisite from ECN 125 and 126 or permission of the instructor" to "MMA students or permission of the instructor."

REN 610: Advanced Studies: change description from "Application of economic theory to resource problems" to "Advanced topic in resource economics.

Mathematical models in resource management. May be repeated for different topics."

F. College of Business Administration
a. Change in the MBA program

The Graduate Council voted to approve the request from the College of Business Administration to increase the total number of credits required in the MBA program from 57 to 60 credits by the addition of a three credit course in Management Science at the 600 level (see below) entitled Operations Management.

Title change for Mgt 631(341) to Mgt 631(341): Personnel Management

b. Add (New)

Management Science 681: Operations Management, Semester II, 3 cr
Problems facing the manager of production and other business processes which are devoted to the creation of capital as well as consumer goods and services, are examined and analyzed, employing modern decision making techniques.
Prerequisites: Management Science 980(300) and Business Statistics 991(300).
Staff.

c. The Graduate Council approved the request from the Department of Accounting to reactivate the M. S. in Accounting with the thesis option and approved the non-thesis option for the M. S. in Accounting. The Non-thesis option will require GBA 671: Methods of Business Research which includes a paper of considerable length and other research activities, a comprehensive written examination in accounting, and ~~either a 30 hour program or a 60 hour~~ ⁷⁰ ~~program or a 60 hour~~ ^{credit} program depending upon the undergraduate courses previously taken.