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## GRADUATE COUNCIL CURRICULAR REPORT #72-73--6

University of Rhode Island Faculty Senate

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Serial Number 72-73--44  
UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

RECEIVED  
UNIVERSITY OF R. I.  
MAY 16 1973  
OFFICE OF THE PRESIDENT

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

1. The Attached BILL, titled GRADUATE COUNCIL CURRICULAR REPORT #72-73--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 73-5-10 (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 73-5-31 (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.

May 15, 1973  
(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.

5/16/73  
(date)

Werner A. Baum /s/  
President

(OVER)

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents.

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 Regents, 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 Regents.

\_\_\_\_\_ /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  
The Graduate School

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE  
Report No. 1972-73-6

At its Meeting No. 110 on March 16, 1973 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
    - I. Department of Civil and Environmental Engineering
      - a. Changes

CVE 478 Solid Waste Disposal and Management  
Change semester to II

CVE 481 Soil Behavior  
Change prerequisite to: CVE 380 or permission of instructor

CVE 483 Foundation Engineering  
Change prerequisite to: CVE 380

CVE 572 Biosystems in Sanitary Engineering  
Change semester to I or II

CVE 584 Principles of Pavement Design  
Change prerequisite to: CVE 380 and permission of instructor

CVE 585 Soil Stabilization  
Change prerequisite to: CVE 380 and permission of instructor

CVE 586 Physico-chemical Properties of Soils  
Change prerequisite to: CVE 481 or permission of instructor;  
Change semester to II

CVE 587 Ground Water Flow and Seepage Pressures  
Change prerequisite to: CVE 380 and permission of instructor

CVE 674 Sanitary Engineering Laboratory  
Change prerequisite to: CVE 679; Change semester to I or II

CVE 675 Sanitary Engineering Design  
Change prerequisite to: CVE 679; Change semester to I or II

CVE 676 Sanitary Engineering Design  
Change prerequisite to: CVE 673; Change semester to I or II

CVE 681 Advanced Soil Mechanics  
Change prerequisite to: CVE 521 or equivalent

CVE 682 Advanced Soil Mechanics  
Change prerequisite to: CVE 681

CVE 696 Numerical Methods in Structural Engineering  
Change semester to II

II. Matters Requiring Confirmation by the Faculty Senate

A. College of Home Economics

1. Department of Textiles, Clothing, and Related Art  
a. Change

TXC 424 to TXC 524 Seminar in Textiles and Clothing  
TXC 524(424) Seminar in Textiles and Clothing II, 3  
Literature in the field of textiles and clothing, review of  
research for textiles and clothing problems. (Lec 3)  
Carpenter

B. Graduate School of Oceanography

1. Add (New)

OCG 646 Deep Sea Sediments and Processes II, 3  
Deep-sea sediments and their relation to oceanic processes  
such as solution, productivity and dilution. Sedimentary dis-  
tributions in time and space as related to tectonic models,  
paleoclimatology, and past water mass distributions and con-  
ditions. Term Paper. (Lec 3) Prerequisite: Permission of  
Instructor. Kennett

OCG 651 Cenozoic Marine Stratigraphy I, 2  
Extensive reading and class discussion of concepts and  
methods of biostratigraphy, chronostratigraphy and lith-  
ostratigraphy as applied to the Cenozoic. Stratigraphic  
nomenclature. Problems and advances in correlation and  
dating of marine sediments from distinct oceanographic regimes  
including type European sections. (Lec 2) Kennett

OCG 609 Dynamics of Mixing I, 3  
Theories of the Thermocline and the problem of vertical mixing.  
The relation of mean vertical mixing coefficients to detailed mech-  
anisms of mixing. Internal waves, shear instabilities, lateral  
spreading and entrainment, thermo-haline convection, small scale  
turbulence. (Lec 3) Prerequisite: Permission of Instructor. Lambert

## 2. Change

OCG 612 Experimental Geophysical Hydrodynamics to-  
 OCG 607 Geophysical Models I, 4  
 Selected laboratory experiments modeling the motions of oceans and atmospheres. Comparison of effects of rotation and stratification. Thermal and Thermohaline convection, inertial waves and boundary layer phenomena. Emphasis on experimental research techniques and preparation of technical reports. (Lec 3, Lab 4) (Alternate years--next offered Fall 74) Lambert

C. College of Resource Development1. Department of Plant and Soil Science

## a. Add (New)

PLS 468 Soil Genesis and Classification I, 4  
 A study of the genesis, morphology, classification, and geographic distribution of soils. The broad principles governing soil formation are explained. Laboratory periods will be devoted largely to field trips to observe different types of soils. (Lec 3, Lab 2) Prerequisite: PLS 212. Wright

PLS 450 Soil Conservation and Land Use I, 3  
 The application of soil survey interpretation as a tool in soil and water conservation and land use planning. The implications of soil properties and problems on land use will be considered with emphasis on urbanizing situations. (Lec 2, Lab 2) Prerequisite: PLS 212 or permission of instructor. Wright

D. College of Arts & Sciences1. Department of Political Science

## a. Add (New)

PSC 578 International Law and Politics of the Oceans II, 3  
 Chronological view of interaction between political processes and resulting international law of the oceans. Special emphasis on international conferences on law of the sea. Open to graduate students in Master of Marine Affairs Program and Political Science Department, and to other graduate students with permission of instructor. (Lec 3) Gamble

2. Department of Mathematics

## a. Change

MTH 471(373) Numerical Methods with Programming I and II, 3  
 Methods in numerical analysis with computer programming. Flow charts, Fortran language. (Lec 3) Prerequisite MTH 243. Staff

MTH 461 Methods of Applied Mathematics

Prerequisite change to: MTH 244 or 361 or 362

MTH 418 Matrix Analysis

Prerequisite change to: MTH 215 or 362 or permission of instructor

MTH 441 Introduction to Partial Differential Equations

Prerequisite change to: MTH 244 or 361

MTH 442 Vector and Tensor Analysis

Prerequisite change to: MTH 244 or 361 or 362

MTH 444 Ordinary Differential Equations

Prerequisite change to: MTH 244 or 361 or 362.

MTH 472 Introduction to Numerical Analysis

Prerequisite change to: MTH 244 or 361 or 362

3. Department of Botany

a. Add (New)

BOT 511 Developmental Plant Anatomy II, 3

The ontogeny of plant structures is studied from zygote through seed production, with emphasis on recent experimental studies which elucidate the morphogenetic mechanisms. Ecological anatomy is included. (Lec 2, Lab 3) Prerequisites: BOT 311 or equivalent. In alternate years, next offered 1974-75. Hauke

b. Deletion

BOT 411: Plant Anatomy

4. Department of Computer Science

a. Add (New)

EST 408 (411) Statistical Methods in Research I I and II, 3

Descriptive statistics, presentation of data, averages, measures of variation, skewness, kurtosis. Elementary probability, binomial and normal distributions. Sampling distributions. Statistical inference, estimation, confidence intervals, testing hypotheses. Linear regression and simple correlations. (Lec 3) Prerequisite: MTH 109. Staff

EST 409 (411) Statistical Methods in Research I I, 3

Same as EST 408 but for students who have better mathematical preparation. Prerequisite: MTH 142 Staff



## b. Deletion

EST 411 Statistical Methods in Research I

## c. Changes

(Contingent upon approval of EST 408, 409)

EST 412 Statistical Methods in Research I  
Prerequisite change to: EST 408 or 409

EST 500 Nonparametric Statistical Methods  
Prerequisite change to: EST 408 or 409 and MTH 451

EST 520 Fundamentals of Sampling and Applications  
Prerequisite change to: EST 408 or 409

EST 532 Experimental Design  
Prerequisite change to: EST 408 or 409

5. Department of Zoology

## a. Crosslisting

OCG 679(or ZOO 679) Animal Communication I, 2  
Visual, chemical and auditory communication in animals,  
including receptor systems, feedback and redundancy.  
Functional aspects and organization of communication.  
Discussion of readings. Research problem can be taken  
under OCG 691 or ZOO 693. (Lec 2) Prerequisite: ZOO 467  
or equivalent and permission of instructor. In alternate  
years, next offered 1974-75. Winn

OCG 681 (or ZOO 681) Biological Clocks and Orientation I, 2  
Circadian, lunar-tidal, annual, and other activity rhythms.  
Orientation particularly related to migratory and daily  
movements. Covers sun, moon and star compass, odor trails,  
magnetic factors, echolocation, and other factors. Research  
problem can be taken under OCG 691 or ZOO 693. (Lec 2)  
Prerequisites: Zoo 467 or equivalent and permission of  
instructor. In alternate years, next offered 1975-76. Winn



MEMORANDUM

To: Dr. Stephen B. Wood, Chairman, Faculty Senate  
Faculty Senate Office, Eleanor Roosevelt Hall

From: Dr. Aloys A. Michel, Dean, Graduate School *A. Michel*

Re: Proposal to Allow up to Six Program Credits in a Master's Program  
for Competency Based on Experience and Demonstrated by Examination  
or Equivalent

Date: March 27, 1973

(1) I am forwarding herewith the text of the above proposal as approved by the Graduate Council at its Meeting No. 109 on February 23, 1973. (The proposal is phrased in the language which would appear in the Graduate Student Manual if the plan is adopted.) The Graduate Council requests the Faculty Senate to approve this proposal and to forward it to the President for his approval.

(2) In presenting this proposal to the Faculty Senate, I would like to call attention particularly to the reference in the second paragraph to the "special examination fee." The Graduate Council realizes that the setting of fees is the prerogative of the Board of Regents; however, the Council, the Senate, and the President may recommend that a new fee be established if necessary. The problem here is one of identifying the faculty member's contribution in preparing, administering and grading a special examination, or in specifying the conditions for and evaluating a special project, and in building this contribution into the compensation system. The most direct way of doing this would be to charge a set fee which was divided between the University and the instructor. However, it is recognized that this approach may not be as simple as it appears because it would involve the "two payroll" problem. Therefore, it has been suggested that the student be required to pay for at least one credit of Special Problems work, so that both the department and the faculty member can be "credited" with their inputs. Under this arrangement, presumably, if the burden involved for any one faculty member grew to substantial proportions it could be recognized in his/her teaching load. At any rate, the Graduate Council would be most appreciative of any suggestions which either the Executive Committee of the Senate or individual Faculty Senate members would care to make regarding the administration of the "special examination fee."

AAM:jmo  
enc