

4-17-1980

## Curricular Report No. 1979-80-8 from the Graduate Council to the Faculty Senate

University of Rhode Island Faculty Senate

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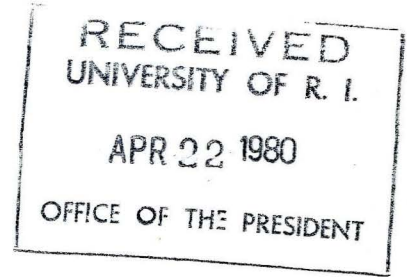
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UNIVERSITY OF RHODE ISLAND  
Kingston, Rhode Island

FACULTY SENATE  
BILL

Adopted by the Faculty Senate



TO: President Frank Newman  
FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled Curricular Report No. 1979-80-8 from the Graduate Council to the Faculty Senate

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 17, 1980 (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 May 8, 1980 (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.

April 18, 1980  
(date)

Alvin K. Swonger  
Alvin K. Swonger  
Chairperson of the Faculty Senate

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ENDORSEMENT

TO: Chairperson of the Faculty Senate  
FROM: President of the University

1. Returned.  
2. a. Approved ✓.  
b. Approved subject to final approval by Board of Regents \_\_\_\_\_.  
c. Disapproved \_\_\_\_\_.

4/23/80  
(date)

F. Newman  
President

UNIVERSITY OF RHODE ISLAND

The Graduate School

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-8

At its Meeting NO. 195 held March 28, 1980 the Graduate Council considered and approved the following curricular matters which are now submitted to the Faculty Senate for confirmation as indicated.

I. Matters Requiring Confirmation by the Faculty Senate.

A. College of Resource Development

1. Department of Aquacultural Science and Pathology (Animal Pathology) and Department of Animal and Veterinary Science (Animal Science)

a. Recoding existing APA and ASC courses into ASP and AVS

APA 501,502 to ASP 501,502; APA 534 to ASP 534; APA 536 to ASP 536; APA 538 to ASP 538; APA 555,556 to ASP 555,556; APA 591,592 to ASP 591,592; ASC 501,502 to AVS 501,502; ASC 512 to AVS 512; ASC 532 to ASP 532; ASC(ELE)580 to AVS(ELE) 580; ASC 584 to ASP 584; ASC 586 to ASP 586; ASC 591,592 to AVS 591,592.

b. Change

AVS 501,502: Seminar - title, prerequisite and description changed to-

AVS 501,502 Graduate Seminar

Preparation and presentation of papers on scientific topics based on research investigations or literature surveys of selected subjects in animal and veterinary science. (Lec 1) Pre: Graduate standing. Staff

2. Department of Plant and Soil Science

a. Separation and Identification of Soils courses (SLS)

PLS 568 to SLS 568; PLS 591,592 Crosslist with SLS; PLS 599,699 Crosslist with SLS; PLS 501-504 Crosslist with SLS

b. Change

PLS 513: Plant Tissue Culture Laboratory - change Semester from I to II

3. Department of Resource Economics

a. Change

REN 534 Economics of Resource Development - title, description and prerequisite changed to-

REN 534 Economics of Natural Resources II,3

Microeconomic theory applied to problems of natural resource allocation. The rationale for government intervention in the market's provision of natural resources and alternative techniques for optimally allocated natural resources are investigated. (Lec 3) Pre: ECN 528 and Permission of Instructor. Gates

REN 543 Economic Structure of the Fishing Industry - prerequisite changed

from: ECN 427 and 428 or permission of instructor

to: 514 or Permission of Instructor

REN 610 Advanced Studies - credit changed from 3 to 1-3

b. Add (New)

REN 591,592 Special Projects I and II, 1-3 each

Advanced work under staff supervision. Arranged to suit the individual requirement of the student. Pre: Permission of department. Staff

4. Department of Community Planning and Area Development

a. Add (New)

CPL 539 Historical Preservation Planning II,3

Survey of historic planning emphasizing what should be preserved; threats to preservation; means for accomplishing preservation of historic buildings and districts, including various legal tools and actual case histories. (Lec 3) Cushman

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-8

B. College of Arts and Sciences

1. Department of Geology

a. Change in requirements for M.S. Program in Geology

From: 32 credits; 6-credit thesis; written qualifying examination; oral examination on course work and thesis; foreign language.

To: 30 credit minimum; 6-credit thesis; oral comprehensive examination; departmental seminar (each semester; no program credit); thesis defense.

Catalog description to read: Program requirements:thesis, oral comprehensive, departmental seminar, defense of thesis.

2. Department of Mathematics

a. Change in requirements for the M.S. degree in Mathematics

From: Program requirements: 30 credit hours (or 24 plus thesis), including at least 18 credits in mathematics of which at least 12 must be at the 500 level or higher, and written comprehensive examination. Recommended courses include MTH 513, 515, 525, 535, 536, and 562.

To: Program requirements: 30 credit hours (or 24 plus thesis), including at least 18 credits in mathematics of which at least 12 must be at the 500 level or higher. A course requiring a substantial paper involving significant independent study and written comprehensive examination required for non-thesis option.MTH 435 and 513 must be completed with a grade of A or B. Recommended courses include MTH 515, 525, 535, 536, and 562.

3. Department of Physics

a. Change in requirements for the Master of Science Program in Physics

From: Program requirements: Thesis and PHY 510, 520, 530, 570 and either PHY 560 or 565. For non-thesis option, the student shall complete 36 course credits, with at least one course requiring a substantial paper involving significant independent study. Twelve of the course credits shall be in the 500-or 600 level physics courses that are in addition to those core courses listed above. The non-thesis student shall successfully complete a final oral examination that will not exceed one and one half hours in length.

To: Program requirements: PHY 510, 520, 530, 570 and either PHY 560 or 565, plus successful completion of a written comprehensive examination, are required of all students. For the non-thesis option, the student shall complete 36 course credits, with at least one course requiring a substantial paper involving significant independent study, and shall pass a final oral exam. For either option, no more than 6 credits in the program may be below the 500 level.

b. Change in requirements for the Ph.D. Program in Physics

From: Admission requirements: GRE with advanced test; bachelor's degree with major in physics preferred. Master's degree is not required. Qualifying examination is required for those accepted without the master's degree.

Program requirements: PHY 510, 511, 520, 525, 530, 531, 570, 571, 650, 660 and either 560 or 565 and 651 or 661. There is no formal departmental language requirement; however, the candidate's committee may require language proficiency.

## 2. College of Resource Development

## a. Department of Food Science &amp; Technology, Nutrition and Dietetics

1) CHANGE: Prerequisite for FSN 421 to "Pre: 431."

2) CHANGE: Description and prerequisite for FSN 431:

FSN 431 Biochemistry of Food (1,3) Introduction to the chemistry and biochemistry of the essential components common to foods of plant and animal origin. (Lec. 3) Pre: BCP 311 or equivalent. Simpson and Rand

3) CHANGE: Title, description and prerequisite for FSN 432:

FSN 432 Food Processing (11,3) Changes involved in behavior of foods in unit operations such as fermentation, canning, irradiation, freezing, dehydration, and enzyme technology for processing and preservation. Pre: 431 and MIC 211. Rand and Simpson

4) CHANGE: Prerequisite for FSN 433 to "Pre: 431 and MIC 211."

5) CHANGE: Title, description and prerequisite for FSN 438:

FSN 438 Food Chemistry Laboratory (11,3) Principles and techniques of basic and applied food research. Investigation of special food problems. Writing and evaluation of technical reports on research findings. (Lec. 1, Lab. 6) Pre: 431 or permission of department. Staff

## b. Department of Forest and Wildlife Management

CHANGE: Prerequisite for FOR 401 to "Pre: Junior standing, EST 408 or 222, BOT 323 recommended."

## B. Curricular Matters Which Require Confirmation by the Faculty Senate

## 1. College of Arts and Sciences

## a. Department of Microbiology

1) DELETE: MIC (or Z00) 408 Introduction to Protozoology (11,4)

2) ADD: MIC (or Z00) 410 Introduction to Protistology (11,3) Taxonomic survey of all classes of protozoa, followed by descriptive biology of the ciliated protozoa. Topics include evolution, ultra-structure, physiology, genetics, development, ecology. Emphasis on recent advances. (Lec. 2, Lab. 2) Pre: 4 courses in biological science; junior standing or permission of instructor. Hufnagel

3) CHANGE: Grading method for MIC 495, 496 to "S/U credit."

## b. Department of Music

ADD: The following courses:

a) MUS 430 The Renaissance Period (1,3) Music of the period (ca. 1400-1630) from Dunstable and Dufay to Palestrina and Monteverdi, covering the polyphonic mass, motet, chanson, madrigal, lied, ricercar, canzona, dance, variation, and related genres. (Lec. 3) Pre: 221 and 222. Glebler

b) MUS 485 Opera Workshop (I and II,1) Performing techniques for the operatic singer. Coordination of music and drama with emphasis on body movement as it relates to historical periods and national characteristics. Development of professional standards and attitudes. (Lec. 1, Lab. 2) May be repeated. Pre: 251A Voice or permission of department. In alternate years, next offered 1980-81. Langdon

## 2. College of Resource Development

## a. Departments of Animal and Veterinary Science and Aquacultural Science and Pathology

1) CHANGE: The course code for the following APA courses:

- a) APA 401 to ASP 401
- b) APA (or ASC) 461 to AVS 461

2) CHANGE: The course code for the following ASC courses:

- a) ASC 412 to AVS 412
- b) ASC 415 to AVS 415
- c) ASC 432 to AVS 432
- d) ASC 451 to AVS 451
- e) ASC (or FMT) 452 to ASP (or FMT) 452
- f) ASC (or APA) 461 to AVS 461
- g) ASC 462 to AVS 462
- h) ASC 472 to AVS 472
- i) ASC 474 to AVS (or ASP) 474
- j) ASC 476 to ASP 476
- k) ASC 483 to ASP 483
- l) ASC 491, 492 to AVS 491, 492

## b. Department of Plant and Soil Science

1) CHANGE: The course code for the following courses to SLS:

- a) PLS (or FSN) 411 to SLS 411
- b) PLS (or FSN) 412 to SLS 412
- c) PLS 450 to SLS 450
- d) PLS 468 to SLS 468

2) CROSS-LIST: PLS 401, 402 as "PLS (or SLS) 401, 402."

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To: Admission requirements: GRE with advanced test; bachelor's degree with major in physics preferred. Master's degree is not required.

Program requirements: PHY 510, 511, 520, 525, 530, 531, 570, 571, 650, 660 and either 560 or 565 and 651 or 661. There is no formal departmental language requirement, although the candidate's committee may require demonstration of language proficiency. Successful completion of a qualifying examination is required of all students.

4. Department of Political Science

a. Change in program requirements for the MPA degree

Add PSC 505 Public Program Evaluation as a requirement for the program leading to the MPA degree.

5. Department of Computer Science and Experimental Statistics

a. Add (New)

CSC 536 Database Management Systems II,3  
Concepts and theory of structuring and managing large data systems; relational, hierarchical, and network approaches database organization; security and integrity; comparative analysis and evaluation of existing systems. (Lec 3) Pre: CSC 413 Weideman/Bass

CSC 540 Analysis of Algorithms I,3  
Design and analysis of computer algorithms; inherent computational complexity. Fast algorithms for sorting and searching, properties of graphs and networks, polynomial and matrix calculations, computational geometry, and combinatorial optimization problems. (Lec 3) Pre: CSC 413 Bass/Lamagna

EST 501 Analysis of Variance and Variance Components I,3  
Analysis of variance and covariance, experimental design models, factorial experiments, random and mixed models, estimation of variance components, unbalanced data. (Lec 3) Pre: EST 412 Hemmerle

EST 502 Applied Regression Analysis I,3  
Topics in regression analysis including subset selection, biased estimation, ridge regression, and non-linear estimation. (Lec 3) Pre: EST 412 Hemmerle

EST 542 Discrete Multivariate Methods II,3  
Analysis of multidimensional categorical data by use of log-linear and logit models. Discussion of methods to estimate and select models followed by examples from several areas. (Lec 3) Pre: EST 412 Hanumara

b. Changes

EST 511 Linear Statistical Models - number and prerequisites changed  
from: EST 511 - Pre: MTH 215 and EST 412 or MTH 452  
to: EST 611 - Pre: EST 501 or EST 502

CSC 512 Advanced Programming Systems - prerequisite changed  
from: CSC 412 and CSC 413  
to: CSC 411 and CSC 413

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-8

c. Change of program requirements for the M.S. in Computer Science

From: Admission Requirements: Bachelor's degree including the equivalent of: MTH 141 and 142, Introductory and Intermediate Calculus with Analytic Geometry; MTH 243, Calculus and Analytic Geometry of Several Variables; MTH 215, Introduction to Algebraic Structures; CSC 201,202, Introduction to Computing I and II; CSC 311, Machine and Assembly Language Programming; and CSC 283, Introduction to PL/I Coding, CSC 285, Introduction to COBOL Coding, CSC 350, Introduction to Numerical Computation; GRE-V, GRE-Q, and GRE-Advanced Test in computer science, mathematics, or undergraduate major field are required for admission.

Thesis Option Program Requirements: A minimum of 24 credits (exclusive of thesis) is required. At least 12 of these credits must be in CSC courses at the 500 level (exclusive of CSC 591,592 unless approved by the major professor and department chairperson). Every candidate must complete CSC 411 and at least one course from each of the following four groups: 1) CSC 412, CSC 413; 2) CSC 500, CSC 511; 3) CSC 502, CSC 515; 4) CSC 525, CSC 535. A thesis is required.

Non-thesis Program Requirements: 1) Substantial computational experience obtained through employment (normally two years). 2) 33 credit hours of course work with at least 15 credit hours at the 500 level or above as follows: a) At least 24 credit hours selected from: CSC 412, 500, 502, 512, 515, 525, 535, 551; EST 409,41 b) Up to 6 credit hours of electives (or CSC 491,492, CSC 591,592 provided that these are conducted as seminar or lecture courses rather than project courses). c) A 3 credit hour seminar (CSC 591). A written library research paper and an oral presentation of same is required. d) CSC 411 or equivalent is required, but may not be counted towards program credit. 3) Written comprehensive examination covering eight of the courses selected from 2a above.

To: Admission Requirements: Bachelor's degree including undergraduate training in computer science at least through assembly language, and mathematics through linear algebra and calculus of several variables; GRE with advanced test in computer science, mathematics, or undergraduate major field are required for admission.

Requirements for all Candidates: 1) Candidates will receive at most 6 credits toward the M.S. degree from CSC 411, CSC 412, CSC 413. 2) Every candidate will take at least one course from group a) below and two from group b). a) CSC 500, CSC b) CSC 502, CSC 512, CSC 540 3) Every candidate must take 2 additional CSC courses at the 500 level or above excluding CSC 591 and CSC 599 (ELE 508 could be used for one of these courses).

Thesis Option Program Requirements: Every candidate must complete a minimum of 24 credits (exclusive of thesis) including the above requirements; and complete a thesis.

Non-Thesis Option Program Requirements: A candidate must complete a minimum of 30 credits, including the above requirements, with at least 18 at the 500 level or at A candidate must also pass a written comprehensive examination.

d. Change of program requirements for the M.S. in Experimental Statistics

From: Admission Requirements: Bachelor's degree including the equivalent of MTH 141, 142, Introductory and Intermediate Calculus with Analytic Geometry; MTH 243, Calculus and Analytic Geometry of Several Variables; MTH 215, Introduction to Algebraic Structures; CSC 201, Introduction to Computing; MTH 451, Introduction to Probability and Statistics or EST 409, Statistical Methods in Research I. GRE-V, GRE-Q and GRE-advanced test in mathematics or undergraduate field are required for admission.

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-8

From: Program Requirements: A minimum of 24 credits (exclusive of thesis) is required. MTH 451, EST 409, and EST 412 are required; however, a maximum of six credits in these courses may be applied as a program credit. All candidates must complete 12 credits at the 500 level; nine of these credits must be selected from: EST 500, 511, 520, 541, 550. A thesis is required.

To: Admission Requirements: Bachelor's degree including the equivalent of: MTH 141, 142, Introductory and Intermediate Calculus with Analytic Geometry; MTH 243; Calculus and Analytic Geometry of Several Variables; MTH 215, Introduction to Algebraic Structures; EST 409, Statistical Methods in Research I; CSC 201, Introduction to Computing. GRE with advanced test in mathematics or undergraduate field are required for admission.

Program Requirements: A minimum of 24 credits (exclusive of thesis) is required. All candidates must complete MTH 451, EST 412, either EST 501 or EST 502 and at least 9 additional credits selected from: EST 500, 501, 502, 520, 541, 542, 550, 592, 611.

e. Addition of a Non-thesis option in Experimental Statistics

Non-thesis option program requirements: 33 credit hours of course work distributed as follows: a) MTH 451, EST 412, and either EST 501 or EST 502; b) At least 9 credit hours selected from: EST 500, 501, 502, 520, 541, 542, 550, 592, 611; c) At least 6 of the remaining credit hours must be at 500 level or above (exclusive of EST 591); d) The above course work must include at least one course that requires a substantial paper involving significant independent study; e) Written comprehensive examination.

6. Department of Microbiology

a. Add (New)

MIC(Z00) 510 Cell and Developmental Biology of the Motile Protista II,2  
Introduction to the motile protista as eucaryotic cells. Emphasis on experimental methods, including brightfield, phase contrast, Nomarski and fluorescence microscopy; cytochemistry; culturing; organelle isolation; genetics; synchronization of development; motility. (Lab 4) Pre: Prior or concurrent enrollment in MIC 410 or permission of instructor.

b. Change

MIC 695,696 Graduate Research Seminar - change from A-F grades apply to: Only S/U grades

7. Department of Music

a. Add (New)

MUS 555 Graduate Recital for Performance Minor I and II,0  
Performance of advanced repertoire of various styles in a public program of at least 45 minutes performance time after faculty acceptance. Pre: Concurrent registration in 551 and 4 or more credits in 551. Staff

C. Graduate School of Oceanography

I. Add (New)

OCG 678 Low Temperature Geochemistry and Isotope Geology II,3  
A study of processes important in determining the chemical and isotopic mass balance of the oceans and the geochemistry of deep sea sediments. (Lec 3) Pre: OCG 521 Bender

UNIVERSITY OF RHODE ISLAND  
Kingston, Rhode Island

FACULTY SENATE

CURRICULAR AFFAIRS COMMITTEE

March 25, 1980

During the 1979-80 academic year, the Faculty Senate Curricular Affairs Committee considered the following proposal for the creation of a Bachelor of Science degree in Human Science and Services and now recommends approval to the Faculty Senate.

College of Human Science and Services

Division of Interdisciplinary Studies

New Programs Committee

ADD: Interdisciplinary Bachelor of Science Degree Program in Human Science and Services

A. Proposal

1. Concentration requirements: 130 credits

a. General Education requirements: 45 credits

Division A: Humanities 9-18 credits

PHL 117; a course in ethics is strongly recommended.

Division B: Mathematics, Natural and Physical Science  
9-18 credits

Three credits in Mathematics are required by the College. Recommended courses include: MTH 109 or 141, CSC 201, EST 220.

Six credits in Natural and Physical Science are required by the College. Courses in Zoology and Chemistry are strongly recommended. Students should consult the material on their Option Areas to check for specific requirements.

Division C: Social Science 12-18 credits

The following courses are required: PSY 113, ECN 123 (Note: students in some Option Areas are strongly advised to take ECN 125 and 126); PSC 113, SOC 208.

Students in social science-based Option Areas are strongly advised to take additional Division C courses. The following courses are strongly recommended as options: APG 203; HIS 142, 341; CSC 220; ECN 126; EDC 102.

Division D: Communication Skills 6-9 credits

Courses or competencies in oral and written communication are required by the College.