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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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.

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

Signature: Alvin K. Swonger
Date: April 18, 1980
Chairperson of the Faculty Senate

Form revised 7/78
CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-8

UNIVERSITY OF RHODE ISLAND

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 755,756 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 AVS 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 651,652 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

   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: ECON 528 and Permission of Instructor. Gates

   REN 543: Economic Structure of the Fishing Industry - prerequisite changed from: ECON 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

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D. 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; department seminar (each semester; no program credit); thesis defense.

   Catalog description to read: Program requirements: thesis, oral comprehensive, department 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 550 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.
b. Department of Music
ADD: The following courses:

a) HUS 430 The Renaissance Period (1,3) Music of the period (ca. 1400-1630) from Dunsstoke and Dufay to Palestrina and Monteverdi, covering the polyphonic mass, motet, chanson, madrigal, l'ed, ricercar, canzona, dance, variation, and related genres. (Lec. 3) Pre: 202 and 222. Giebler

b) HUS 485 Opera Workshop (1 and 1.1) 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

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 ASC (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 478 to AVS (or ASP) 478
   j) ASC 478 to ASP 478
   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,"
CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1979-80-B

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
   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 Weiderman/Bass

CSC 540 Analysis of Algorithms
   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
   Analysis of variance and covariance, design of experiments, regression models, analysis of variance components, unbalanced data. (Lec 3) Pre: EST 412 Hemmerle

EST 502 Applied Regression Analysis
   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
   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 511 - 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

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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, Introduction to Computer Organization and Digital Design; CSC 211, 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 414; 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) At least 15 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, 581; EST 409, 411; b) Up to 6 credit hours of electives (or CSC 491, 492, or CSC 591, 592 provided that these are conducted as seminar or lecture courses rather than project courses). c) A 3 credit hour seminar (CSC 593). A written library research paper and an oral presentation of the 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 least 6 credits toward the M.S. degree from CSC 411, CSC 412, CSC 414. 2) Every candidate will take at least one course from group a) below and two from group b). a) CSC 500, 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 12 at the 500 level or above 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 Computer Organization and Digital Design; CSC 211, 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.

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To: Admission Requirements: Bachelor's degree including the equivalent of: MTH 141, 142, CURRICULAR REPORT FROM above course work must include at least one course that requires Non-thesis option program requirements: 33 credit hours of course work distributed as selected from:

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, 542, 550, 592, 611. A thesis is required.

To: Admission Requirements: Bachelor's degree including the equivalent of: MTH 141, 142, 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.

a. 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 410 Cell and Developmental Biology of the Motile Protista I, II
   Introduction to the motile protists 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) Pr: 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 1 and II, 0
   Performance of advanced repertoire of various styles in a public program of at least 45 minutes performance time after faculty acceptance. Pr: Concurrent registration in 551 and 4 or more credits in 551. Staff

C. Graduate School of Oceanography
   1. Add (New)
   OCG 578 Low Temperature Geochemistry and Isotope Geology I, 1, 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) Pr: OCG 521 Bender