

11-8-1984

Curricular Report No. 1984-85-3 from the Graduate council to the Faculty Senate

University of Rhode Island Faculty Senate

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UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

FACULTY SENATE
BILL

Adopted by the Faculty Senate

TO: President Edward D. Eddy

FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled Curricular Report No. 1984-85-3 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 November 8, 1984 (date)
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Governors, completing the appropriate endorsement below.
5. In accordance with Section 10, paragraph 4 of the Senate's By-Laws, this bill will become effective on November 29, 1984 (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 Governors for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Governors, it will not become effective until approved by the Board.

November 13, 1984
(date)

Frank M. White
Frank M. White
Chairperson of the Faculty Senate

ENDORSEMENT

TO: Chairperson of the Faculty Senate

FROM: President of the University

Returned.

- a. Approved _____.
- b. Approved subject to final approval by Board of Governors _____.
- c. Disapproved _____.

11/24/84
(date)

Edward D. Eddy
President

UNIVERSITY OF RHODE ISLAND
The Graduate School

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1984-85-3

At its Meeting No. 237 held October 19, 1984 the Graduate Council considered and approved the following curricular matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

I. Matters of Information.

A. Labor Research Center
1. Temporary Course

LRS 590X, 591X Directed Readings and Research I,II,SS, 3
Readings and research under the direction of LRC associated faculty to meet individual student requirements. Restricted to M.S. Labor Studies/Labor Relations graduate students. Pre: Permission of the LRC Director. Staff

II. Matters Requiring Confirmation by the Faculty Senate.

A. College of Engineering
1. Department of Electrical Engineering
a. Add (New)

ELE 544 Computer Arithmetic for VLSI II,3
Review of number systems and computer arithmetic: hardware implementation of fixed-and floating point adders, multipliers and dividers; VLSI implementation of residue arithmetic finite fields; error analysis and time/gate complexity of arithmetic operations. (Lec 3) Pre: ELE 405. Kumaresan

B. College of Business Administration
1. Department of Management Science
a. Change credits and description to -

MGS 520 Mathematical Methods for Management I or II,3
Fundamental mathematical method applied to the understanding and solution of managerial problems. Topics include the solution of systems of linear equations, differential calculus and related areas. (Lec 3) Graduate Credit for Matriculated M.B.A. and M.S. in Accounting students only. Staff

MGS 530 Statistical Methods for Management I or II,3
Introductory methods of statistics applied to the understanding and solution of business problems. Topics include concepts of business decision parameters, classical and subjective probability, probability distribution inference, sample size problems, regression and index numbers. (Lec 3) Graduate Credit for Matriculated M.B.A. and M.S. in Accounting students only.

C. College of Arts and Sciences
1. Department of Computer Science and Statistics
a. Add (New)

CSC 501 Programming Language Semantics I or II,3
Design, analysis, implementation and comparative study of major programming language families. Topics include procedural and block structured languages, interpretive languages, concurrency, functional languages, object-oriented programming, logic programming, dataflow languages and machines. (Lec 3) Pre: CSC 301 and 311. Staff

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CSC 511 Advanced Computer Organization I or II,3
Architectural support for high-level programming languages, operating systems, and special applications; database and dataflow machines. Design and analysis of instruction sets from a software perspective; critique of conventional computer organization. Relation to implementation techniques. (Lec 3) Pre: CSC 411 or 412 or 416. Lamagna and Soh

CSC 520 Software Engineering I or II,3
Tools and methodologies for design, development, testing and maintenance of large software systems. Very high level languages and programming environments. (Lec 3) Pre: CSC 413. Weiderman

b. Change in admission and program requirements for the Master's program in Computer Science for both the thesis and non-thesis options to -

Master of Science

Admission requirements: Bachelor's degree including undergraduate training in computer science at least through the syntax and semantics of a variety of programming language types, machine and assembly language concepts, and fundamentals of data structures and algorithms. Mathematics through linear algebra, calculus of several variables, and discrete mathematical analysis. GRE including the advanced test in computer science. Applicants may submit, if they so desire, additional advanced GRE scores for consideration.

Program requirements, thesis option: (1) A minimum of 24 course credits (exclusive of thesis) and a thesis. (2) At least 15 course credits must be earned at the 500 level or above. (3) At least 18 course credits must be from CSC or a combination of CSC and computer engineering (ELE 405, 408, 508, 537 and 544). (4) Completion of at least 6 credits in each of two of the following areas: Programming Languages and Computer Systems - CSC 501, 502, and either 511 or 512; Information Structures and Algorithms - CSC 536, 540, 545; Numerical Methods and Scientific Applications - CSC 525, 550, 551.

Program requirements, non-thesis option: (1) A minimum of 30 course credits, including at least one course with a substantial paper involving significant independent research. (2) At least 21 credits must be earned at the 500 level or above. (3) At least 24 credits must be from CSC or a combination of CSC and computer engineering (ELE 405, 408, 508, 537 and 544). (4) Completion of at least 6 credits in each of two of the following areas and 3 credits in the third: Programming Languages and Computer Systems - CSC 501, 502, and either 511 or 512; Information Structures and Algorithms - CSC 536, 540, 545; Numerical Methods and Scientific Applications - CSC 525, 550, 551. (5) Passing a written comprehensive examination.

c. Changes in courses as follows

CSC 502 Theory and Design of Compilers - prerequisite to read: CSC 301 and credit or concurrent registration in CSC 413.

CSC 512 Topics in Operating systems - description to read-

CSC 512 Topics in Operating Systems I,3
In-depth studies of topics chosen from the following list:
concurrent programming, computer systems performance and distributed systems. (Lec 3) Pre: CSC 412. Staff

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CSC 545 (515) Formal Languages and Automata Theory - description and prerequisite to-

CSC 545 (515) Formal Languages and Automata Theory I,3
Abstract models of computation; deterministic and nondeterministic machines. Grammars and formal languages. Finite state machines and regular expressions; pushdown automata and context-free languages; Turing machines. Effective computability and unsolvable programs. Pre: CSC 413. Staff

CSC 540 Analysis of Algorithms - description to-

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, and combinatorial optimization problems. NP-completeness and intractability. (Lec 3) Pre: CSC 413. Staff

CSC 500 Scientific Applications of Digital Computers I - title and number to-

CSC 550(500) Advanced Numerical Computation I; delete "and permission of instructor" in pre

CSC 551 Scientific Applications of Digital Computers II - title and description to-

CSC 551 Advanced Numerical Computation II and delete "Monte Carlo methods" from list of topics in course description

2. Department of Geology
a. Add (New)

GEL 591 Special Problems I and II, 1-3
Advanced work under the supervision of a member of the staff arranged to suit the individual requirements of the student. (Lec and/or Lab according to the nature of the problem) Pre: Permission of instructor. S/U credit. Staff

GEL 590, Special Problems - grading method will remain A-F.

GEL 515: Glacial Geology - change in credits from 4 to 3

3. Department of Biochemistry and Biophysics
a. Change

BCP 523,524 Special Topics in Biochemistry and Biophysics - grading method changed - BCP 523 will remain A-F grading; BCP 524 is changed to S/U credit

4. Department of Languages
a. Change

FRN 594 Special Topics - description and prerequisite changed to-

FRN 594 Special Topics I and II,3
Group and/or individual investigation of special problems in French language, literature and civilization. Pre: Acceptance of a project by a member of the staff and departmental approval. Staff

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5. Department of Zoology
a. Change

ZOO 693,694 Zoological Problems - grading method changed - ZOO 693 will remain A-F grading; ZOO 694 is changed to S/U credit

D. Graduate School of Oceanography
1. Add (New)

OCG 643 Subduction Zones I,3
Structure, petrology and geochemistry of subduction zones, island arcs and other magmatic arcs at convergent plate margins. Petrogenesis of andesites and related magmas. (Lec 3) Pre: OCG 540 or permission of instructor. Sigurdsson

E. College of Pharmacy

1. Department of Pharmaceutics
a. Changes

Title of M.S. and Ph.D. option in Pharmaceutical Sciences from Pharmacy to Pharmaceutics.

Change in admission and program requirements:

Add to master's admission requirements, CSC 201 or equivalent.

Change MS program requirements to: thesis; EST 408, 409; BCP 435; PHC 521,522; six credits of 500/600 level PHC courses.

Change Ph.D. program requirements to:

M.S. core requirements plus PHC 665 and six additional credits of 500/600 level PHC courses.