1-23-1975

Ninety-Fourth Report of the Curricular Affairs Committee

University of Rhode Island Faculty Senate

Serial Number 74-75--26

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

FACULTY SENATE
BILL

Adopted by the Faculty Senate

TO: President Frank Newman

FROM: Chairman of the Faculty Senate

1. The attached BILL, titled Ninety-Fourth Report of the Curricular Affairs Committee ,

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 January 23, 1975 (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 February 13, 1975 (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.

January 24, 1975
(date)

Albert J Lott
Albert J. Lott
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 Regents is not necessary.

Feb 13, 1975
(date)

Frank Newman
President

(OVER)

Form revised 6/74

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents

FROM: The University President

1. Forwarded.

2. Approved.

_____ (date) _____ President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Regents, via the University President.

1. Forwarded.

_____ (date) _____

_____ (Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Regents.

_____ (date) _____ President

Original received and forwarded to the Secretary of the Senate and Registrar for filing in the Archives of the University.

_____ (date) _____

Chairman of the Faculty Senate

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

December 31, 1974

Faculty Senate Curricular Affairs Committee Ninety-Fourth Report

At its meeting of December 19, 1974 the Faculty Senate Curricular Affairs Committee considered the following matters now submitted to the Faculty Senate.

S E C T I O N I

Informational Changes (Including Experimental Courses):

A. College of Arts and Sciences

1. Department of Geography

a. GEG 348X Special Problems in the Geography of Middle America II, 3
Diversity and unification problems confronting the peoples of the Greater and Lesser Antilles, Mexico and Central America. Emphasis on human, physical and cultural attributes and their interrelationships; spatial differences and likenesses. (Lec. 3) Warman

b. GEG 350X Geography and Education II, 3
Geography's role in educational processes, modern techniques for presentation of geographic content, future challenges of geography and how they may be met in the curriculum. Designed for prospective teachers in the social sciences and/or earth sciences. (Lec.3) Warman

2. Department of Physical Education for Women

PEW 220X History and Theory of Classical Russian Ballet II, 3
The historical development of Russian Ballet and the theorical application of the Russian system of control, discipline and balance in the dance form. (Lec. 2, Lab. 2) Marsden

B. College of Engineering

Department of Electrical Engineering

a. ELE 297X Analytical Problem Solving II, 1
Solving engineering problems taken from various engineering disciplines with emphasis on methods and techniques and on appreciation of practical significance of solutions. Prerequisite: ELE 210 and at least one of the following: MCE 161, 162 or PHY 213. Lengyel and Mardix

b. ELE 396X Analytical Problem Solving I, 1
Solving engineering problems taken from various engineering disciplines with emphasis on methods and techniques and on appreciation of practical significance of solutions. Prerequisite: ELE 211. Lengyel and Mardix

B. (continued)

c. ELE 397X Analytical Problem Solving II, 1
Solving engineering problems taken from various engineering disciplines with emphasis on methods and techniques and on appreciation of practical significance of solutions. Prerequisite: ELE 312. Lengyel and Mardix

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S E C T I O N II

Curricular Matters Submitted to the Faculty Senate for Confirmation:

A. College of Arts and Sciences

1. Department of History

ADD: HIS 398 History through Science Fiction II, 3
Ideas about history in popular culture as seen in the literary genre of science fiction. (Lec. 3) Briggs, Klein

2. Department of Mathematics

ADD: Option in Applied Mathematics within existing Bachelor of Science Program:

APPLIED MATHEMATICS OPTION

This option is intended for the student who anticipates a career as an applied mathematician or mathematical consultant with an organization such as an industrial or engineering firm or a research laboratory. The student learns the mathematical ideas and techniques most often encountered in such work, and is trained to solve mathematical problems. Although a theoretical foundation is developed, the emphasis is on the applied aspect.

Students selecting this option must complete 42 credits as follows:

MTH 141	Introductory Calculus with Analytic Geometry	3
MTH 142	Intermediate Calculus with Analytic Geometry	3
MTH 215	Introduction to Algebraic Structures	3
MTH 243	Calculus and Analytic Geometry of Several Variables	3
MTH 437, 438	Advanced Calculus and Applications I, II	6
CSC 201	Introduction to Computing	3
CSC 410	Introduction to Computer Science and Algorithmic Processes	3
Additional credits selected from MTH 143, 217, 244, 335, 418, 441, 451, 452, 462, 471, 472		9
Additional credits from List A		9
		42

A. 2. (continued)

LIST A. To gain experience using mathematics in a variety of applications the student is required to select at least nine credits from the following:

CSC 411	Computer Organization and Programming
CSC 413	Data Structures
ELE 210	Introduction to Electricity and Magnetism
EST 409	Statistical Methods in Research
IDE 432, 433	Operations Research I, II
MCE 162	Statics
MCE 263	Dynamics
MGS 365, 366	Management Science I and II
MGS 375	Bayesian Statistics in Business
MGS 445	Mangerial Applications of Simulation
PHY 322	Mechanics

MTH 107 Introduction to Finite Mathematics, MTH 108 Topics in Mathematics, and MTH 109 Algebra and Trigonometry, are not open to students majoring in Mathematics.

A student who intends to do graduate work in mathematics is advised to also take MTH 316 and 425.

Total credits required: 130

CHANGE: Description of Bachelor of Science Degree in Mathematics on p. 53 of 1974-75 Undergraduate Bulletin:

BACHELOR OF SCIENCE

Students in this curriculum can follow the four-year general program in mathematics or select the option in applied mathematics during their junior and senior year.

The general program is designed to include the basic theories and techniques of mathematics. The required courses introduce the student to the principal areas of mathematics, and they provide a foundation for advanced study at the graduate level.

The applied mathematics option is inteded for the student who anticipates a career as an applied mathematician or mathematical consultant with an organization such as an industrial or engineering firm or a research laboratory. The student learns the mathematical ideas and techniques most often encountered in such work, and is trained to solve mathematical problems. Although a theoretical foundation is developed, the emphasis is practical.

A. 2. (continued)

The following mathematics courses, totaling 12 credits, are required for students in both the general program and the option in applied mathematics: MTH 141, 142, 215, 243. These courses should normally be taken in the freshman and sophomore years.

MTH 107, MTH 108, and MTH 109 are not open to students majoring in mathematics.

A student selecting the general program must complete, in addition to the courses listed above, 27 credits in mathematics, including: MTH 316, 335, 336, 425, 462.

Furthermore the student in the general program must complete a minor concentration of 18 or more credits in one of the following four areas:

Biological sciences (biology, botany, microbiology, zoology)
Physical sciences (astronomy, chemistry, geology, physics)
Social sciences (economics, geography, political science, psychology, sociology)
Computer science

Six credits in computer science may be counted toward the minor concentration in any of the first three areas. The program must include PHY 213, 285, and 214, 286.

Total credits required: 130

Students selecting the applied mathematics option must complete, in addition to the 12 credits listed above, 30 credits as follows:

MTH 437, 438, CSC 201, CSC 410	12
Additional credits selected from MTH 143, 217, 244, 335, 418, 441, 444, 451, 452, 462, 471, 472	9
*Additional credits from CSC 413, ELE 210, IDE 432, 433, MCE 162, 263, MGS 365, 366, 375, 445, PHY 322	9
	30

*To gain experience using mathematics in a variety of applications the student is encouraged to select, in addition to the required nine credits, as many electives from this list as possible.

A student who intends to do graduate work in mathematics is advised to also take MTH 316 and MTH 425.

Total credits required: 130

3. Department of Sociology and Anthropology

Sociology

ADD: SOC 342 The Sociology of Sex Roles I or II, 3
Sex roles within social institutions, personal relationships and sex role playing. Social policy toward liberating society. (Lec.3) Prerequisite: SOC 202. Reilly

CAC #94--74-12-31

B. Course Credits

The Curricular Affairs Committee recommends to the Faculty Senate that credit for all courses (including experimental) be expressed in whole units.

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S E C T I O N III

Joint Report of the Faculty Senate Curricular Affairs Committee and the Graduate Council on 400-level Courses.

At their meetings of December 19, 1974 and December 13, 1974 respectively, the Curricular Affairs Committee and the Graduate Council considered the following matters now submitted to the Faculty Senate.

A. Informational Changes (including Experimental Courses):

1. College of Arts and Sciences

Department of Political Science

PSC 467X Urban Maxi Study I, II, 1-3
Varied research and intensive studies in the area of contemporary urban affairs. Emphasis on individual involvement with some aspect of urban or metropolitan crisis, change, public policy, and priorities. (Lec. 1-3) Prerequisite: PSC 113 and at least one other Political Science course or permission of staff. Junior or Senior standing. Leduc, Stein, Killilea

2. College of Home Economics

Department of Home Economics Education

1) CHANGE: Prefix, title and catalog description for EDC 478, 479.

HED(EDC) 478, 479 Problems in Home Economics Education I and II, 1-3 each
Advanced work in Home Economics Education. Conducted as seminars or as supervised individual projects. (Lec. or Lab.) Prerequisite: permission of department. Staff

2) CHANGE: Prefix, title and prerequisite for the following courses:

a) HED(EDC) 490 Teaching Home Economics: Grades 1 through 6 I and II, 2
Prerequisite: CDF 200, EDC 312, HED 334 or permission of department.

b) HED(EDC) 491 Teaching Home Economics: Adults I and II, 3
Prerequisite: HED 334 or permission of department.

B. Curricular Matters Submitted to the Faculty Senate for Confirmation:

1. College of Arts and Sciences

a. Department of Languages

1) French

ADD: FRN 473 French Canadian Literature I, 3
Early historical and biographical works, but primarily the study of the novel, poetry and theater of the twentieth century. (Lec. 3) Prerequisite: FRN 325 or 326 or permission of the instructor. In alternate years, next offered 1975-76. Chartier

2) Linguistics

CHANGE: Level and number for LIN 409, 410 to LIN 201, 202(409,410)

LIN 201, 202(409,410) Introduction to the Study of Languages I and II, 3 each
LIN 201: Basic principles of descriptive linguistic science.
LIN 202: Principles of historical linguistics (Lec. 3)
Prerequisite: (for 202) LIN 201. F. Woods

b. Department of Mathematics

ADD: MTH 437, 438 Advanced Calculus and Application I,II I and II, 3 each
Sequences, limits, continuity, differentiability, Riemann integrals, functions of several variable, multiple integrals, space curves, line integrals, surface integrals, Green's Theorem, Stoke's Theorem, series, improper integrals, uniform convergence, Fourier series, Laplace Transforms. (Applications to physics and engineering emphasized.) (Lec. 3) Prerequisite: MTH 243. Staff

c. Department of Sociology and Anthropology

Anthropology

ADD: APG 411 Maritime Ethnology I, 3
An examination of man's sociocultural adaptation to the seas. (Lec. 3) Prerequisite: APG 203 or consent of instructor. Pollnac