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5-9-1974

## Graduate Council Curricular Report No. 1973-74 - 11

University of Rhode Island Faculty Senate

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FACULTY SENATE

BILL

Adopted by the Faculty Senate

RECEIVED  
UNIVERSITY OF R. I.  
MAY 14 1974  
OFFICE OF THE PRESIDENT

TO: Acting President Ferrante

FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled Graduate Council Curricular Report No. 1973-74-II

\_\_\_\_\_

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 May 9, 1974 (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 30, 1974 (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 10, 1974  
(date)

Maury Klein /s/  
Chairman of the Faculty Senate  
MAURY KLEIN

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.

5/27/74  
(date)

Wm R Ferrante /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

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE  
Report No. 1973-74-II

At its Meeting No. 125 on April 26, 1974 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 Arts & Sciences

1. Department of Music

a. Experimental course

MUS 499X Maintenance and Repair of String Instruments SS,1  
Introduction to the craft of string instrument maintenance and repair, taking into account acoustic and cosmetic qualities. Staff

2. Department of Education

a. Experimental course

EDC 919X Workshop in Marine Education SS,1  
Curriculum materials and resources for marine studies at the elementary and secondary level will be reviewed. Students will participate in the development of new materials to be included in the Marine Curriculum Study Project. Prerequisite: Permission of department. Staff

EDC 909X New Directions for Home Economics: Human Ecology & Environment SS,3  
The family as an ecological system will be basis for incorporating environmental education into the teaching of home economics. Current resource materials will be available for use in developing a teaching-learning project for classroom use. Prerequisite: Permission of workshop director. Staff

EDC 906X Workshop on International Education SS,6  
Intensive study of relevant educational principles as operationalized in Europe and Southeast Asia. Through a case study approach individuals will become aware of educational problems affecting both underdeveloped and more developed nations in today's world. Prerequisite: Permission of workshop director. Minoque

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3. Department of Psychology  
a. Experimental course.

PSY 465X (PHL 465X) Phenomenology of Motives SS, 3  
This course is designed to provide a background for the understanding of the philosophical and psychological aspects of motivation theory. A phenomenological analysis of motives will be presented which will include the experiential analyses of "want", "ought", and "must". In addition, the various levels of motives will be treated including the theories of Freud, Sartre, Goffman, Heider, Lewin, M. Weber, Durkheim, Marx, and Spinoza. A derivation will be attempted to understand the problems of "freedom", "order", and "necessity" in motivational terms. Prerequisite: Permission of Psychology Department. Staff

PSY 475X (PHL 475X) Practicum in Phenomenology SS, 3  
Lectures will focus on the background and purposes of phenomenological analyses. Both the philosophical and psychological aspects of phenomenology will be covered. Students will be able to familiarize themselves with the special problems, concepts, and language of the phenomenological method. Examples from the literature will be utilized, (i. e., Sartre, Merleau-Ponti, Schler, Schurtz, Straus, Binswanger). Specific analyses will be presented as exemplars (i. e. gratitude, resentment). Also, some of the main parameters used in analysis of the "life-world" (Lebenswelt) will be presented--i. e., the body, space, time and causality. The second part of the course will consist of specific selected topics of interest to students and critical group discussion will be conducted. Prerequisite: Permission of Psychology Department. Staff

B. Graduate Library School  
I. Experimental Course

LSC 564X Introduction to Library Conservation I, 3  
Designed to meet requirements for a general approach to the subject. Would give the student the background necessary for effective management of programs of preventive and restorative conservation. (Lec 3) Cunha and Tucker

LSC 565X Practical Library Conservation II, 3  
An opportunity for students to get a sound working knowledge of the approved theories and techniques for the care of books and related materials. (Lec 3) Cunha



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II. Matters Requiring Confirmation by the Faculty Senate.

A. College of Business Administration.

1. Department of Finance and Insurance

a. Change

FIN 440 Title changed to- Problems of Portfolio Management

FIN 491-2 Title changed to- Directed Study


FIN 415 Title and description changed to-  
FIN 415 Liquidity Management I, 3  
An examination of liquidity and the role it plays in  
financial decision making activities. Prerequisite:  
FIN 321 and upper class standing. Staff

FIN 416 Title and description changed to-  
FIN 416 Intermediate Financial Management II, 3  
An analytical exposition concerning the problems of  
selecting and financing long-term investments. (Lec 3)  
Prerequisite: FIN 321 and upper class standing. Staff

FIN 433 Description changed to-  
The nature of the financial decisions facing the management of an  
individual bank. Current bank financial practices, research, and  
appropriate banking models considered. (Lec 3) Prerequisite:  
FIN 332 or permission of instructor. Staff

2. General Business Administration

a. Changes

GBA 671 Description changed to-  
An understanding of research methodology and the culmination  
of such methodology into a term project. (Lec 3) Prerequisite:  
MGS 581 or equivalent and permission of department. 

GBA 681 Course designation changed to- OMR 681 Administrative Policy and  
Decision-Making

GBA 410 Course designation changed to OMR 410 Business Policy

b. Deletion

GBA 655 International Business Administration

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3. Department of Accounting.  
a. Change

M. S. Accounting students will now have the option of taking either FIN 641: Advanced Financial Theory or FIN 645: Managerial Economics. M. S. Accounting students presently are required to take both courses. These students will be required to take a 600 level elective in the place of the FIN 641 or FIN 645 course not taken.

B. College of Arts & Sciences  
I. Department of Chemistry  
a. Add (New)

CHM 615 Trace Analysis of Inorganic Substances I, 3  
Principles of trace analysis. Emphasis on techniques and instrumentation. The advantages and limitations of such techniques as atomic absorption spectroscopy, neutron-activation analysis, flame emission, x-ray fluorescence will be presented. (Lec 3) Prerequisite: CHM 511 (509) or permission of instructor. Fasching, Burdo

CHM 616 Applied Analytical Techniques II, 3  
Application of analytical instrumentation and techniques to practical problems. Limitations and specific difficulties of analyzing complex matrices in practical research. Problem oriented presentation. (Lec 3) Prerequisite: CHM 511 (509) and 512(516) or permission of instructor. P. R. Brown

CHM 617 Advanced Instrumentation I, 3  
Basic design and theory of design of instruments. Discussion of advantages and limitations of specific instruments. Current research in instrument design and critical evaluation of designs. (Lec 3) Prerequisite: CHM 511(509) and ELE 220 or ELE 537 or its equivalent. Fasching, Burdo

CHM 618 Theory of Separations II, 3  
Companion to CHM 615. In-depth presentation of theory of separation processes. Emphasis on methods development, advanced topics and current advances using gas and liquid chromatography. (Lec 3) Prerequisite: CHM 511(509) or permission of instructor. P. R. Brown, Burdo

CHM 622 Advanced Organic Synthesis II, 3  
Discussion of modern synthetic methods for the construction of complex chemical structures. (Lec 3) Prerequisite: CHM 522. Staff

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CHM 626 Free Radicals and Photochemistry I, 3  
Theory of formation and detection of free radicals and photoexcited states. Bond homolysis, additions, oxidation, polymerization, rearrangements and other free radical reactions. (Lec 3) Prerequisite: CHM 521, 522 or equivalent.  
Abell

CHM 627 Organic Intermediates I, 3  
The formation, reaction and decomposition of short lived organic intermediates will be explored with special emphasis on the carbonium ion, carbanion and carbene type species. (Lec 3) Prerequisite: CHM 521 Staff

CHM 628 Organometallic Chemistry II, 3  
The interaction of the organic and inorganic moieties and their effects upon each other. Special emphasis will be placed on the interaction of organic moieties with the transition and main group metals. (Lec 3) Prerequisite: CHM 502 Rosen

CHM 691 Special Topics I and II, 2  
Covers the following topics of special research interests:  
A. Carbohydrate Chemistry, B. Chemical Kinetics, C. Clinical Chemistry, D. Computer Techniques in Analytical Chemistry, E. Forensic Chemistry, F. Free-Radical Rearrangements, G. Recent Advances in Analytical Chemistry, H. Light Scattering, I. Molecular Orbital Theory, J. Pericyclic Reactions, K. Surface Chemistry, L. X-Ray Analysis of Organic Molecules. (Lec 2)  
May be repeated up to a maximum of 6 credits. Staff

b. Delete

CHM 513 Advanced Analytical Laboratory (contingent upon approval of CHM 617)  
CHM 514 Thermal Methods of Analysis  
CHM 516 Ion Exchange and Gas Chromatography (contingent upon approval of CHM 617)  
CHM 639 Surface Chemistry (contingent upon approval of CHM 691)  
CHM 528 Organo-inorganic Chemistry (contingent upon approval of CHM 628)  
CHM 531 Chemical Kinetics (contingent upon approval of CHM 691)  
CHM 604 Semiempirical Molecular Orbital Theory (contingent upon approval of CHM 691)  
CHM 606 Light Scattering, Applications to Research (contingent upon approval of CHM 691)  
CHM 621 Carbanion Theory (contingent upon approval of CHM 627)  
CHM 623 Free Radical Reactions (contingent upon approval of CHM 626)  
CHM 624 Organic Photochemistry (contingent upon approval of CHM 626)  
CHM 625 Advanced Theoretical Chemistry



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c. Changes

CHM 508 Number and prerequisite changed to-  
CHM 608(508) Inorganic Reaction Mechanisms  
Prerequisite: CHM 502 or permission of instructor

CHM 509 Number changed to-CHM 511(509)

2. Department of Sociology

a. Add (New)

SOC 520 Seminar in Sociological Topics I or II, 3  
Advanced study of selected topics in sociology. (Lec 3)  
Prerequisite: Graduate or senior standing and permission  
of department. Staff

b. Change

SOC 571, 572 Title changed to "Directed Study or Research"

3. Department of Geology

a. Add (New)

GEL 565 Advanced Interpretation in Applied Geophysics II, 3  
Interpretation of geophysical data using theoretical models.  
Reflection, refraction and surface propagation of seismic  
energy. Computer analysis of gravity and magnetic potential  
data. D.C. geoelectrical potential over horizontally stratified  
medium. (Lec 2, Lab 2) Prerequisite: MTH 243, PHY 214, GEL  
465 or equivalent course in Physics with permission of instructor.  
Offered in the spring of even calendar years. Frohlich

GEL 566 Seismology and Plate Tectonics II, 3  
Earthquakes, intensity and magnitude determination, fault plane  
solution; earth's interior, crustal and upper mantle structure  
related to plate boundaries. Seismic zones and margins of tectonic  
plates. Earthquake control and prediction. (Lec 2, Lab 2)  
Prerequisite: MTH 142, PHY 214, GEL 465, or equivalent course in  
physics or mathematics with permission of instructor. Offered in  
the spring of odd calendar years. Frohlich

b. Change

GEL 465 Description and prerequisite changed to-  
GEL 465 Introduction to Geophysics I, 3  
Introduction to the physical properties of the earth and the  
application of geophysical exploration techniques. Seismic,  
gravity, magnetic and electrical field techniques and basic  
methods of interpretation. (Lec 2, Lab 3) Prerequisite: GEL103  
or ESC 105 and 106, PHY 112 or 214, MTH 142 or permission of  
instructor. Frohlich

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4. Department of Languages  
a. Change

SPA 485 Description, Prerequisite, Year Offered and Instructor changed to-  
SPA 485 The Modern Spanish Novel II, 3  
Representative works by Spain's major novelists  
beginning with the Generation of 1898 and including the  
most recent writers. (Lec 3) Prerequisite: SPA 326 or  
permission of instructor. In alternate years, next offered  
1975-76. Freedman

5. Department of Botany  
a. Change

BOT 417 Course title changed to "Field Aquatic Plant Ecology"

6. Department of Microbiology and Biophysics  
a. Cross Listing

PLP 422 to be cross listed with MIC 422: Industrial Microbiology

7. Department of History  
a. Change (Informational)

Add "Degree programs are offered in American History, European History  
before 1789, European History since 1789, and in Third World Area Studies",  
in the Graduate School Bulletin in the section describing the M. A. Program in  
History.

8. Department of Zoology  
a. Add (New)

ZOO 646 Advanced Mammalian Physiology II, 2  
Reports and discussions on topics of current research in  
Mammalian Physiology, coordinated with Zoology 442.  
Assigned research projects using advanced physiological  
techniques and instrumentation. (Rec 1, Lab 3) Prerequisite:  
concurrent enrollment in Zoo 442 or permission of the instructor.  
Hill

(Referred back to Graduate Council for reconsideration of prerequisite by Faculty  
Senate at Meeting Number 11.)

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C. College of Resource Development

1. Department of Plant Pathology-Entomology

a. Add (New)

PLP 422(MIC 422) Industrial Microbiology II, 3  
The application of microbial systems to industrial scale operations. Culture handling, fermentation systems, equipment, products and the legal and economic aspects of the processes. Laboratory exercises demonstrate fundamental types of operations. (Lec 2, Lab 3) Prerequisite: MIC 401 and BCH 311. Traxler