

4-13-1972

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO FACULTY SENATE NO. 71-72-9

University of Rhode Island Faculty Senate

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Serial Number 71-72-29
UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILL

Adopted by the Faculty Senate

RECEIVED
UNIVERSITY OF R. I.
APR 17 1972
OFFICE OF THE PRESIDENT

TO: President Werner A. Baum
FROM: Chairman of the Faculty Senate

1. The Attached BILL, titled CURRICULAR REPORT FROM THE GRADUATE
COUNCIL TO FACULTY SENATE NO. 71-72-9

is forwarded for your consideration.

- The original and two copies for your use are included.
- This BILL was adopted by vote of the Faculty Senate on 72-4-13 (date).
- 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.
- In accordance with Section 8, paragraph 2 of the Senate's By-Laws, this bill will become effective on 72-5-4 (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 Trustees for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Trustees, it will not become effective until approved by the Board.

April 14, 1972
(date)

Stephen D. Schwarz /s/
Chairman of the Faculty Senate

ENDORSEMENT 1.

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

RECEIVED

APR 19 1972

UNIVERSITY OF RHODE ISLAND
FACULTY SENATE

- Returned.
- Approved ✓. Disapproved _____.
- (If approved) In my opinion, transmittal to the Board of Regents is not necessary.

4/17/72
(date)

Werner A. Baum /s/
President

(OVER)

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Regents.

FROM: The University President

1. Forwarded.

2. Approved.

_____ /s/
(date) President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

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

1. Forwarded.

_____ /s/
(date) _____
(Office)

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

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

UNIVERSITY OF RHODE ISLAND
The Graduate School

Report No. 71-72-9

March 6, 1972

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO FACULTY SENATE

At its Meeting No. 96 on March 3, 1972 the Graduate Council considered and/or approved the following curricular matters which are now submitted to the Faculty Senate for information or confirmation.

I. Matters of InformationA. College of Engineering

ELE 411 Microwave and Quantum Electronics (description to read:) Impedance transformation and matching on transmission lines and wave guides. Solution of wave equation for wave guides and resonant cavities. Modes in laser resonators. Refraction and diffraction phenomena, antennas, holography. Introduction to generation of electromagnetic energy at microwave and optical frequencies.

ELE 427 Electromechanical Devices (description to read:) Principles of electromechanical energy conversion. Development of models for stationary and rotating electromagnetic devices. Introduction to special transducers and sensors.

ELE 431 Electrical Engineering Materials I (description to read:) Properties of solids, chiefly semiconductors, which are utilized in modern electronic devices. The physics of these materials and devices is stressed, but some time is devoted to fabrication technology and applications.

ELE 432 Electrical Engineering Materials II (description to read:) Continuation of ELE 431. Further application of semiconductors and P-N junction devices and theory of dielectric and magnetic materials.

ELE 433 Electrical Engineering Materials Laboratory (description to read:) This laboratory supplements ELE 431 and ELE 432. Students fabricate simple devices and measure their electrical and/or optical properties or study the basic properties of some solid, usually semiconducting samples. Practical aspects of solid state engineering are emphasized.

ELE 436 Communication Systems (description and prerequisite to read:) Representation of signals and noise. Basic principles of modulation and demodulation. Waveform and digital transmission systems. (Lec 3) Prerequisite: ELE 312 and ELE 313 or equivalent knowledge of linear circuit theory, elementary electronics and transform methods.

ELE 443 Electronics II (description and hour change to read:) Continuation of Electronics I. Application of signal flowgraphs as an aid to design. Thermal stability of stages. Applications of circuit analysis program, ECAP. Design of multiple transistor circuits. Feedback. (Lec 3, Lab 5)

ELE 457 Feedback Control Systems (description to read:)
Fundamental techniques for the analysis and design of linear feedback systems. Stability, sensitivity, performance criteria, Bode diagrams, Nyquist criterion, root locus techniques, state variables and compensation methods.

ELE 458 Systems Laboratory (prerequisite to read:)
ELE 457 or equivalent.

B. College of Resource Development

PLS 454 Identification of Basic Ornamental Plants (description and prerequisite to read:)

Identification and description under winter and spring conditions, classification and adaptation of the coniferous evergreens, vines and ground covers and their value in ornamental plantings. (Lec 1, Lab 4) Prerequisite: BIO 101 or BOT 111

PLS 461 Weed Science (description to read:)

Ecological and cultural aspects of weed problems, physiology of herbicide action, selected problem areas in weed control and plant identification.

PLS 475 Plant Nutrition (description to read:)

Uptake, movement, and function of essential mineral elements and the organic nutrition of economically important plants. Laboratory involves soilless plant culture, radioisotopes, ion interaction and deficiency symptoms.

PLS 491,492 Special Projects and Independent Study (description to read:)

Projects involving plant nutrition, propagation, growth and development and garden design and site planning. Laboratory, library, studio, greenhouse, storage and field facilities are utilized.

PLS 573 Post-harvest Physiology of Economic Crops (description to read:)

Factors affecting post-harvest physiology of fruits, vegetables, flowers, ornamentals and sod. Influence of preharvest factors on post-harvest condition. Principles of preservation and storage. Individual or group projects.

PLS 576 Physiology of Plant Productivity (prerequisite to read:)

Prerequisite: Organic chemistry, plant physiology, biochemistry or with permission of the instructor.

C. College of Business Administration

MGS 458 Advanced Production Management (description and prerequisite to read:)

Analysis of company operations within an industry context. Definition of unique strengths and weaknesses of a company within the environment in which it operates. Specific techniques, e.g.; PERT, production planning, selected in terms of company strategy. (Lec) Prerequisite: MGS 310, MGS 457, or permission of instructor. Vollmann and Zartler.

MGS 457 Advanced Production Management (prerequisite to read:)

MGS 365 or permission of instructor.

MGS 476 Management System Analysis (prerequisite to read:)

MGS 363 or permission of instructor.

MGS 491,492 Special Problems (prerequisite to read:)

Permission of instructor.

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March 6, 1972

II. Matters Requiring Confirmation by the Faculty SenateA. College of Engineering1. Department of Chemical Engineering

a. Add (New)

CHE 539 Electron and Light Microscopy of Solids I,3
 Theory and physical principles governing the design and use of light and electron optical systems in identification, analysis and structural characterization of metals, ceramics, polymers, glasses and composites. Emphasis on polarized light and scanning electron microscopy. (Lec 3) Prerequisite: CHE 437 or equivalent. Gielisse and Rockett

B. College of Resource Development1. Department of Plant and Soil Science

a. Changes

Change designation of courses in Resource Mechanics from PLS to REM as follows:
 PLS 451 to REM 451
 PLS 484 to REM 484

PLS 472 Plant Improvement cross listed as PLS 472(GEN 472) and list under Genetics as GEN 472(PLS 472). Description and prerequisite to read:

PLS 472 (GEN472) Plant Improvement II,3
 Breeding of economic crops with major emphasis on vegetables, ornamentals, flowers and turfgrasses. The objectives and techniques of selection, pure line and hybridization breeding: quantitative variability: seed production: application of genetic principles to breeding problems. (Lec 2, Lab 2)
 Prerequisite: GEN 352 (ASC 352, BOT 352) in alternate years, next offered 1972-73 Griffiths.

PLS 501-504 Graduate Seminar in Plant and Soil Science- Description to read:
 PLS 501-504 Graduate Seminar in Plant and Soil Science I and II,1 each
 Presentation of technical reports and discussion of current research papers in soil science, landscape ecology, growth and development of economic crops and production and management of economic crops. (Lec 1) Prerequisite: Permission of the instructor. Fall 1972 PLS 503: Growth and Development of Economic Crops. Hull. Spring 1973 PLS 504: Production and Management of Economic Crops. Shaw.

2. Department of Food and Resource Chemistry

a. Change

Course Number change from FRC 421 to FRC 521

C. College of Pharmacy1. Department of Pharmacognosy

a. Add (New)

PCG 447 General Pharmacognosy Laboratory I and II, 1
 An introduction to and application of laboratory methods utilized in the preparation, identification, isolation, and purification of pharmaceuticals from natural sources. (Lab 3) Prerequisite: CHM 226, BIO 101, BIO 102 or equivalent. Staff

b. Changes

PCG 445,446 General Pharmacognosy change in credit from 4 credits each to 3 credits each; Lec 3, Lab 3 changed to Lec 3 and Prerequisite changed from CHM 226, ZOO 111 or equivalent to CHM 226, BIO 101, BIO 102 or equivalent. Youngken, Worthen, and Shimizu

D. College of Arts & Sciences

1. Department of Speech
 - a. Add (New)

SPE 433 Chamber Theatre I, alternate years, 3
Oral interpretation of prose fiction through group performance. Practice in the adapting and directing of narrative fiction for Chamber Theatre, a technique for dramatizing point of view. Prerequisite: SPE 231, 331. (Lec 3)
Caldwell

E. College of Home Economics

1. Department of Food and Nutritional Science

Approval of the course, FNS 451,452: Field Experience in Food and Nutrition, to carry graduate credit was denied by the Graduate Council. The catalog listing should, therefore, carry the notation, "Not for Graduate Credit".

jmo