Faculty Senate Bills   Faculty Senate

12-8-1977

Curricular Report No. 1977-78-4 from the Graduate Council to the Faculty Senate

University of Rhode Island Faculty Senate

Follow this and additional works at: https://digitalcommons.uri.edu/facsen_bills

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

FACULTY SENATE
BILL

Adopted by the Faculty Senate
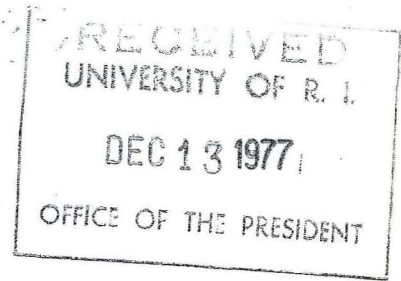
TO: President Frank Newman

FROM: Chairman of the Faculty Senate .

1. The attached BILL, titled **Curricular Report No. 1977-78-4 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 **December 8, 1977** .
    (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 **December 29, 1977** (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.

December 9, 1977
_____   _____
     (date)   Robert M. Gutchen
                                           Chairman of the Faculty Senate

----

ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.

2. Approved ✓ 12/20/77.   Disapproved_____.

3. (If approved) In my opinion, transmittal to the Board of Regents is not
    necessary.

_____12/20/77_____   _____
     (date)   President

(OVER)

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
The Graduate School

URRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1977-78-3

At its Meeting No. 167 held November 4, 1977 the Graduate Council considered
and approved the following curricular matter which is now submitted to the
Faculty Senate for information.

I.   Matters of Information.
     A.   Library (Special Collections)
          1.   Temporary Course

LIB 505X Fine Letterpress Printing   I,II,3
History, theory and practice of fine printing by
letterpress, with emphasis on the work of the great
private presses. (Lec and Lab) Pre: Graduate standing
or permission of instructors. Maslyn and Gutchen

CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY SENATE - Report No. 1977-78 -

At its Meeting No. 168 held November 18, 1977 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.   College of Engineering
          1.   Department of Electrical Engineering
               a.   Temporary Courses (to be superseded by permanent courses below)

ELE 513X Solar to Electric Energy Conversion   II,3
Review of the theory of thermal radiation. Collection
of radiant energy as heat and direct conversion to
electricity. Concentration on photovoltaic solar cells.
(Lec 3) Pre: ELE 331 or equivalent. Mardix

ELE 510X Communication Theory   II,3
Communication theory for discrete and continuous channels.
Optimum receiver principles and signal design. Calculation
of channel capacity and reliability functions, coded systems,
channel models, modulation techniques and performance. (Lec 3)
Pre: ELE 509. Staff

II. Matters Requiring Confirmation by the Faculty Senate.
     A.   College of Engineering
          1.   Department of Electrical Engineering
               a.   Add (New)

ELE 513 Solar to Electric Energy Conversion II,3
Review of the theory of thermal radiation. Collection of
radiant energy as heat and direct conversion to electricity.
Concentration on photovoltaic solar cells. (Lec 3) Pre:
ELE 331 or equivalent. Permission of instructor. Mardix

ELE 508 Computer Architecture   I and II,3
Hardware architecture of modern minicomputers and micro-
computers. Instruction sets, memory organization, peripheral
interfacing and control, bus structures, microprograming,
microcomputer systems, techniques for real-time operation,
software aids and requirements. (Lec 3) Pre: ELE 405 or
CSC 311 or equivalent. Staff

ELE 542 Analog Filter Design   I or II,3
Introduction to passive network synthesis. Analysis and
design of active circuits and filters with operational
amplifiers; generalized impedance converters; gyrators.
Introduction to the design of thick-film hybrid micro-
circuits. (Lec 3) Pre: ELE 444 or equivalent. Krikorian

ELE 661 Estimation Theory   I or II,3
Extraction of information from discrete and continuous data,
best linear estimation, recursive estimation, optimal linear
filtering, smoothing and prediction, nonlinear state and
parameter estimation, design and evaluation of practical
estimators. (Lec 3) Pre: ELE 503 and 509. Lindgren and Tufts

b. Changes

ELE 501 Linear Systems Theory (title and description changed to read-)

ELE 501 Linear Transform Analysis   I,3
Fourier and Laplace transform analysis of continuous-time
systems, causality and spectral factorization, evaluation
of inverse transforms, z-transform analysis of discrete-
time systems, Hilbert transforms, discrete Fourier transforms,
generalized transforms. (Lec 3) Staff

ELE 605 Nonlinear System Analysis - renumbered to ELE 502

ELE(MCE)503: Linear Control System (description changed to read-)

ELE(MCE)503 Linear Control Systems   I or II,3
State variable description of continuous and discrete-time
systems, matrices and linear spaces, controllability and
observability, pole placement methods, observer theory
and state reconstruction, modern control systems design.
(Lec 3) Pre: ELE 313 or MCE 366 or equivalent. Lindgren and Palm

---

ELE 651 Feedback Control Systems I (number, title, and description changed to-)

ELE 504 Optimal Control Theory   II,3
Quadratic performance indices and optimal linear control,
frequency response properties of optimal feedback regulators,
state estimation, separation theorem, optimal control of
nonlinear systems, Pontryagin's minimum principle.(Lec 3)
Pre: ELE 503. Lindgren and Krikorian

ELE 505 Design of Digital Circuits (description changed to read-)

ELE 505 Design of Digital Circuits   I,3
Design techniques for digital computers and controllers. Com-
binatorial and sequential circuits, minimization techniques,
fast arithmetic circuits, memory and control circuits,
floating-point hardware, Turing machines, coders and decoders,
microprogramming, sequence generators. (Lec 3) Pre: ELE 405 or
equivalent. Staff

ELE 561 Information Transmission (number, title and description chanted to-)

ELE 510 Communication Theory   II,3
Communication theory for discrete and continuous channels.
Optimum receiver principles and signal design. Calculation
of channel capacity and reliability functions, coded systems,
channel models, modulation techniques and performance. (Lec 3)
Pre: ELE 509. Staff

ELE 581 Intelligence in Man and Machine- title changed to-

ELE 581 Artificial Intelligence

ELE 665 Detection, Estimation and Modulation Theory (title and description to re

ELE 665 Modulation and Detection   I or II,3
Advanced treatment of modulation and detection theory.
Minimum mean-square error, maximum likelihood, and
maximum posterior probability estimators. Applications
to communication systems and to radar and sonar systems.
(Lec 3) Pre: ELE 510. Tufts.

B. College of Pharmacy
     1. Department of Pharmacognosy
         a. Add (New)

PCG 597,598 Special Problems   I and II, 1-3 each
Special graduate student project assignments in the study
of natural drug research under the supervision of faculty.
Credits not to exceed total of six. Pre: Permission of
department. For graduate students only. Staff