1986

Curricular Report No. 1985-86-4 from the Graduate council to the Faculty Senate

University of Rhode Island Faculty Senate

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TO: President Edward D. Eddy  
FROM: Chairperson of the Faculty Senate  

1. The attached BILL, titled Curricular Report No. 1985-86-4 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 March 20, 1986.  

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 April 10, 1986, 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.  

   March 21, 1986 (date)  
   Richard Katula  
   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  

   April 10, 1986 (date)  
   Edward D. Eddy  
   President  

Form revised 10/83
At its Meeting No. 248 held February 21, 1986 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. Graduate School of Oceanography
      1. Temporary Course
      
      OCG 930X Workshop in Oceanography Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of physical sciences. Basic topics in
      oceanography from an advanced or pedagogical perspective. (Lec or Lab)
      Pre: Certified teacher. Staff

   B. College of Arts and Sciences
      1. Department of Geology
         a. Temporary Course
      
      GEL 930X Workshop in Geology Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of physical sciences. Basic topics of
      geology from an advanced or pedagogical perspective. (Lec or Lab)
      Pre: Certified teacher. Staff

      2. Department of Botany
         a. Temporary Course
      
      BOT 930X Workshop in Botany Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of biology. Basic topics of botany from
      an advanced or pedagogical perspective. (Lec or Lab) Pre: Certified teacher. Staff

   II. Matters Requiring Confirmation by the Faculty Senate.
      A. College of Arts and Sciences
         1. Department of Botany
            a. Add (New)
      
      BOT 930 Workshop in Botany Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of biology. Basic topics of botany from
      an advanced or pedagogical perspective. (Lec or Lab) Pre: Certified teacher. Staff

         2. Department of Chemistry
            a. Add (New)
      
      CHM 930 Workshop in Chemistry Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of physical sciences. Basic topics of
      chemistry from an advanced or pedagogical perspective. (Lec or Lab) Pre:
      Certified teacher. Staff

         3. Department of Geology
            a. Add (New)
      
      GEL 930 Workshop in Geology Topics for Teachers I,II,SS, 0-3 each
      Especially designed for teachers of physical sciences. Basic topics of
      geology from an advanced or pedagogical perspective. (Lec or Lab) Pre:
      Certified teacher. Staff
A. Informational Matters

1. College of Business Administration

   a. Department of Management

      1) ADD: BSL 460X Entrepreneurial Law (1,3) Study of legal issues of concern to the entrepreneur - business organizations; limited partnership syndications; bankruptcy, SEC regulations and patent and trademark protection.  Pre: 333. Staff

      2) CHANGE: Prerequisite for MGT 410 to "Pre: 301, ACC 202, FIN 301, MGS 309, MKT 301, senior standing in the College of Business Administration or permission of instructor."

   b. Department of Marketing

      CHANGE: Prerequisite for MKT 442 to "Pre: 301, 341 or permission of instructor."

2. College of Engineering

   a. Department of Electrical Engineering

      1) CHANGE: Prerequisite for ELE 405 to "Pre: 205 or CSC 311."

      2) CHANGE: Prerequisite for ELE 406 to "Pre: 405 or CSC 311."

   b. Department of Mechanical Engineering and Applied Mechanics

      1) CHANGE: Description and prerequisite for the following courses:


         b) MCE 428 Mechanical Control Systems (1,2) Analysis of mechanical, electromechanical, hydraulic, pneumatic, and thermal control
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B. College of Pharmacy
   1. Department of Pharmaceutics
      a. Add (New)
         PHC 633 Advanced Physical Pharmacy Laboratory II.2
         Laboratory exercises dealing with the physical-chemical principles used in evaluation of pharmaceutical substances. (Lab 2a) Pre: CHEM 435. Barnett

   b. Change
      PHC 631 Advanced Physical Pharmacy - change in description, prerequisite, credits and deletion of lab to read:

      PHC 631 Advanced Physical Pharmacy II.3
      Theory and application of physical-chemical principles to problems in pharmaceutical research, with emphasis on methods by which properties of new medicinal agents are determined. (Lec 3) Pre: CHEM 435 or permission of department. Paruta

2. Environmental Health Sciences
   At the request of the Environmental Health Sciences Steering Committee the Graduate Council voted that there be an immediate suspension of accepting new graduate students into the program for the 1986-87 academic year.

C. College of Engineering
   1. Department of Chemical Engineering
      CHE 531 Polymer Engineering I or II.3
      Polymer processing and mechanical properties of plastics, fibers and elastomers. (Lec 3) Pre: CHE 348 or MEC 448 or permission of instructor. Barnett

      b. Change
         CHE 641 Transport Phenomena II - description changed to:

         CHE 641 Transport Phenomena II I.3
         Steady, unsteady and multidimensional heat conduction; convection. Mass transport at low and high fluxes; diffusion and chemical reaction; perturbation analysis; boundary layer theory; approximate methods for heat and mass transfer problems. (Lec 3) Pre: CHE 541 or permission of instructor. Bose

   2. Department of Civil and Environmental Engineering
      (Geotechnical Area)
      a. Changes
         Specialization listed as "Soil Mechanics" is changed to "Geotechnical Engineering"

         CVE 681 Advanced Soil Mechanics - title changed to-Advanced Soil Mechanics I
         CVE 682 Advanced Soil Mechanics - title and offering changed to-Advanced Soil Mechanics II; Offered Spring of odd calendar years.
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CVE 547 Geometric Design of Highways I, 3
Evaluation of alternative designs. Criteria and practices of geometric design; at grade intersections, interchanges, channelization, weaving, parking facilities, and road appurtenances; safety considerations, lane balancing, ramp and terminals. (Lec 3) Pre: CVE 347 or equivalent. Offered Fall of even calendar years. Next offered Fall 1986. Lee

CVE 548 Pavement Materials and Mix Design II, 3
Surfacial soils. Material characterization and testing; elastic, viscoelastic and plastic behavior. Fracture, fatigue, and rutting; design of bituminous mixtures. Other pavement materials and additives. Pavement recycling. (Lec 2, Lab 3) Pre: CVE 347 or equivalent. Offered Spring of even calendar years. Next offered Spring 1988. Faruque/Lee

CVE 641 Pavement Evaluation and Rehabilitation II, 3

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b. Add (New)
CVE 556 Variational Methods in Structural Engineering I, 3
Introduction; principle of minimum potential energy; principle of minimum complementary energy; generalized variational formulations; principles with relaxed continuity requirements; application to structures, soils, groundwater flow. (Lec 3) Pre: CVE 453 or permission of instructor. Offered every fourth year. Next offered Fall 1996. Karamanlidis/Chang

CVE 657 Structural Stability II, 3
Introduction; principal forms of equilibrium paths and their stability; conservative elastic systems; buckling of prismatic members; imperfections; plastic deformations; post-buckling of frames and reticulated structures; numerical methods; catastrophe theory. (Lec 3) Pre: CVE 556 or permission of instructor. Karamanlidis/McEwen

3. Department of Electrical Engineering
a. Changes
ELE 506 Digital Signal Processing - description changed to read:ELE 506 Digital Signal Processing II, 3
Digital representations of signals and noise; sampling and aliasing; design of digital filter processing systems for signal parameter estimation and signal detection; discrete Fourier transform and FFT algorithm, periodogram. (Lec 3) Pre: ELE 501 and 509. Staff

b. Add (New)
ELE 546 Computer Based Instrumentation I, 3
Design of memory systems, input-output techniques, direct memory access controllers, instrument buses, video displays, multiprocessors, coprocessors, real-time operation, device handler integration into high level language and mass storage. (Lec 2, Lab 3) Pre: ELE 205, ELE 314, ELE 405 concurrently. Ohley/Sun

ELE 625 Guided Waves in Optical and IR Fibers I, 3
Guided electromagnetic wave aspects of optical and IR fibers, novel approximation methods for solution of vectorial and scalar wave equations in optical fibers, theory of transparency and nonlinear optical interactions in solids as applied to design of optical fibers. (Lec 3) Pre: ELE 511 and ELE 525. Mitra

4. Department of Mechanical Engineering
a. Add (New)
MCE(CHE) 650 Advanced Topics in Heat Transfer I or II, 3
Advanced topics in heat transfer which are of current research interest. Topics may involve all modes of heat transfer and could include phase change and mass transfer. (Lec 3) Pre: MCE 545, 546, or permission of instructor. Staff

MCE 680 Advanced Topics in Solid Mechanics I or II, 3
Advanced studies in the mechanics of solids with specific topics determined by current department interests. Designed for students with at least one year of previous graduate studies. (Lec 3) May not be repeated. Pre: Permission of instructor. Staff