2000

Curricular Report No. 2000-2001 from the Graduate Council to the Faculty Senate

University of Rhode Island Faculty Senate

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TO: President Robert L. Carothers

FROM: Chairperson of the Faculty Senate

1. The attached BILL, titled Curricular Report No. 2000-2001-1 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 September 28, 2000.

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 September 28, 2000 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.

   September 29, 2000
   (date)
   C. B. Peters
   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 

   10/4/00
   (date)

President

Form revised 9/98
At meeting No. 363 held September 8, 2000, the Graduate Council considered and approved the following curricular matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

1. Matters of Information
   A. College of Environmental and Life Science
      1. Department of Geosciences
         a. Temporary Courses:

         GEO 582X Innovative Subsurface Remediation Technologies (II, 4) Understanding the concepts and applicability of innovative subsurface remediation technologies. Discussion of advantages and shortcomings of these technologies compared to conventional methods. (Lec) Pre: 483, 484 or NRS 510 or permission of instructor. Boving

         GEO 586X Organic Contaminant Chemistry (I, 4) Develop an understanding of the chemical and physical principles, fundamental relationships, and equations that characterize organic contaminants in the hydrosphere. (Lec/Lab 2) Pre: GEO 483 or GEO 484X or NRS 510 or permission of instructor. Boving

      2. Department of Biochemistry, Microbiology and Molecular Genetics
         a. Temporary Course:

         BCH (MTC) 545X Basic Neurochemistry (I, II, SS, 3) Electrochemical events associated with synaptic transmission of nerve impulses; functions of G-proteins and second messengers; stimulus-response biochemistry of neurotransmitters. (Lec) Pre: Graduate standing or permission of instructor. Scorpio

   B. College of Arts and Sciences
      1. Department of Psychology
         a. Changes (approved at Mtg. No. 358 but omitted from Curric. Report 99-00-4)

Add as a last sentence in the course descriptions for the courses listed below the following sentence:

Counts as a “core course” for graduate study in psychology and includes an historical perspective.
PSY 600 Multicultural Issues in Psychology
PSY 601 Physiological Psychology
PSY 602 Learning and Motivation
PSY 603 Development
PSY 604 Cognitive Psychology
PSY 605 Personality
PSY 606 Social Psychology
PSY 608 Theories and Systems
PSY 609 Perception
C. Courses deleted during the summer under the four-year rule:

- BIO 554
- ENG 530
- HED 595
- TMD 552

II. Matters Requiring Confirmation by Faculty Senate

A. College of Engineering

1. Department of Industrial and Manufacturing Engineering
   a. Changes:

   IME 500 Network Application in Industrial Engineering - change description to read:
   Industrial systems problems that can be formulated in terms of network. Critical path
   method/PERT applications, maximum flow in network, network analysis and synthesis, max­
   flow and min-cost network. GERT stochastic network modeling and applications.

   IME 533 Advanced Statistical Methods for Research and Industry - change description to read:
   Describing and analyzing data, design of experiments, analysis of variance, regression
   analysis, and applications in industry and applied science research.

   IME 541 - Materials Processing and Metrology II - change title and description to read:
   IME 541 Advanced Materials Processing Engineering analyses in the processing of materials.
   Rapid manufacturing fundamentals. Non traditional manufacturing techniques. Dynamic
   coupling, tool-work-piece interaction, energy and thermal analysis; mechanics of material
   removal and displacements.

   IME 542 Introduction to Computer-Aided Manufacturing - change description and prerequisite
   to read:
   Use of computers in manufacturing. Solid modeling principles and applications. Numerical
   and adaptive control. CNC programming. Introduction to rapid manufacturing. (Lec) Pre:
   IME 240 or permission of instructor.

   IME 545 Manufacturing Systems: Analysis, Design, Simulation - change description and prerequisite
   to read:
   Problems in manufacturing system analysis and design. Quantitative models and simulation
   methods applied to manufacturing planning, control, scheduling, resource allocation, and
   decision making in various types of manufacturing systems. (Lec) Pre: MTH 363 or
   permission of instructor.

   IME 610 Topics in Applied Queuing Theory - change description to read:
   Poisson and Erlang queues, embedded chains, M/G/1 and G/M/1 queues, and related topics in
   queuing theory. Phase type distributions, Markov renewal processes. Analysis of wide
   variety of queues with an applications orientation.

   Change program requirements for the Master’s degree program in Manufacturing Engineering
   to read (changes underlined):
   Program requirements: The thesis option requires 30 credits including thesis (six to nine
   credits); IME 549 or IME 550 or IME 591/592, IME 542 and IME 545: at least three elective
   courses from at least two of the following areas: fundamentals of manufacturing processes and
   manufacturing properties of materials, design for manufacture and assembly, quality
   engineering, simulation, control and optimization of manufacturing systems.
The non-thesis option, for part-time students with department permission, requires 30
credits of course work including IME 542, IME 545 and IME 549 or IME 550 or IME 591/592.
At least 12 credits from at least three of the following areas: fundamentals of manufacturing
processes and manufacturing properties of materials, design for manufacture and assembly,
quality engineering, simulation, control and optimization of manufacturing systems. A
comprehensive examination must also be taken on three of the above areas. IME 240 or
equivalent is a prerequisite.

Change program requirements for the Doctoral program in Industrial and Manufacturing
Engineering to read (changes underlined):

......A total of 54 credits of course work are required, including IME 542, IME 545, IME 549
or IME 550 or IME 591/592 and 24 credits from at least three of the following areas:
fundamentals of manufacturing processes and manufacturing properties of materials, design for
manufacture and assembly, quality engineering, simulation, control and optimization of
manufacturing systems. A comprehensive examination must be taken..........

B. College of Environmental and Life Sciences
   1. Departments of Geosciences and Natural Resources Science
      a. Add (New):
         GEO (NRS) 584 Environmental Hydrogeology: Fate and Transport of Contaminants in
         Groundwater (II, 4) Develop an understanding of the physical principles, fundamental
         relationships, and equations that describe the fate and transport of contaminants in the
         hydrologic system. (Lec 3/Lab 2) Pre: GEO 483 or CVE 588 or NRS 510 or permission of
         instructor. Boving

      2. Department of Nutrition and Food Sciences
         a. Add (New):
            NFS 507 Applied Nutrition I (I, 1) Selected topics in applied nutrition with an emphasis on
            medical nutrition therapy. (Lec) Pre: NFS 444 or permission of instructor. Greene

            NFS 508 Applied Nutrition II (II, 1) Selected topics in applied nutrition with an emphasis on
            community nutrition and foodservice management. (Lec) Pre: NFS 506 or permission of
            instructor. Greene

C. College of Pharmacy
   1. Department of Applied Pharmaceutical Sciences
      a. Change:

      Incorporate the Pharmacy Administration M.S. program into the existing Applied
Pharmaceutical Sciences M.S. program, creating a third track entitled “pharmacoepidemiology
and pharmacoeconomics”, making the following changes to the admission and program
requirements for the M.S. in Applied Pharmaceutical Sciences (changes underlined):

      M.S. Admission requirements: GRE and B.S. (pharmacy) or Pharm.D. or equivalent
      Program requirements: For the pharmaceutics track: thesis; written comprehensive
      examination;............For the cosmetic science and technology track: thesis; written
      comprehensive examination;........from 500- or 600-level pharmaceutics courses. For the
      pharmacoepidemiology and pharmacoeconomics track: thesis; written comprehensive
      examination; STA 409 or 411 or equivalent; APS 599, 651, 652, 693, 694.

      Ph.D. Program requirements: pharmacoepidemiology and pharmacoeconomics track - add 580
to list of core courses; add “health care quality management”, “pharmacoeconomics” and
“managed care pharmacy” to list of suggested concentrations.
M.S. program in Pharmacy Administration

D. College of Business
1. Management Information Systems
   a. Add (New):

MIS 630 Management Systems Analysis and Design (II, 3) An overview of Systems Analysis and Design, and its role in the development of information systems. Major focus is on the methodologies, techniques and tools used to create successful information systems. (Lec) Pre: MIS 600 or permission of instructor. Staff

MIS 635 Database Management Systems (II, 3) Design and analysis of complex multi-user databases used in real time business transaction processing. The class will contain discussion and examination of databases for strategic and tactical purposes. (Lec) Pre: MIS 440 or equivalent or permission of instructor. Staff