UNIVERSITY OF RHODE ISLAND  
THE GRADUATE SCHOOL  

To: Members of the 2008-2009 Graduate Council  
From: Harold Bibb, Associate Dean  
        Keith Killingbeck, Associate Dean  
Date: 25 March 2009  
RE: Agenda for Meeting Number 435 of the Graduate Council to be held  
on Monday 30 March 2009 at 2:00 p.m. in the Board Room of the  
Alumni Center, Upper College Road  

I. Call to Order  
II. Approval of Minutes of Meeting Number 434, 23 February 2009 (please see attachment)  
III. Announcements  
   A. Recent appointments to the Graduate Faculty  
      
      Wendy Plante, Adjunct Professor, Department of Psychology  
      Glenisson de Oliveira, Adjunct Assistant Professor, Department of Geosciences  
      Jason Link, Adjunct Professor, Graduate School of Oceanography  
   B. Workshop for Graduate Program Directors, Chairs, and members of the Graduate Council -- 20 April 2009 (208 Carlotti) -- update. Our guest speaker will be Kathy Pruner from the Educational Testing Service.  
   C. Last day to submit graduate course proposals for 2008-09 = 7 April 2009.  
IV. New Business  
   A. URI Graduate School Dissertation Awards – please see attached call for nominations  
V. Committee Reports  
   A. New Programs Committee – combined Bachelor’s/Master’s accelerated degree program in Engineering (please see attached)  
   B. Curriculum Committee (please see attachment containing course proposals)  

400-level courses  
Changes:
1) College of the Engineering
   Department of Ocean Engineering

OCE 307 Intro to Eng. Wave Mechanics & Littoral Processes—change in course number, credits, and catalog description to read:
OCE 408 Intro to Eng. Wave Mechanics & Littoral Processes (4)
Description of coastal area. Linear wave theory and applications. Sediment transport and beach dynamics. Coastal protection methods. Coastal engineering problem solving with Matlab. (Lec. 4) Pre: MCE354 and OCE301, or Permission of Instructor.

2) College of the Environment and Life Sciences
   Department of Fisheries, Animal and Veterinary Science

ASF 486 Applied Physiology of Fish—change in title, prerequisites, and catalog description to read:
ASF 486 Fish Physiology (3)
Study of how fish function in the changing aquatic environment from the molecular to the organismal level. The major organ systems, regulation of physiological and biochemical functions, and interactions will be explored. (Lec. 3) Pre: BIO 201 or 242, or AVS 331, or Permission of Instructor.

New Courses:

1) College of the Environment and Life Sciences
   Department of Nutrition and Food Sciences

NFS 440 Macronutrient Metabolism (3)

2) College of Arts and Sciences
   Department of Psychology

PSY 425 Peace Psychology (3)
Peace Psychology combines aspects of cognitive, social, clinical and cross-cultural psychology that bear on the prevention of violence and the promotion of constructive nonviolent behavior. Pre: Prior coursework in Psychology and another social science, or permission of the instructor.

3) College of Pharmacy
   Department of Biomedical and Pharmaceutical Sciences

BPS 405 Physical Pharmacy (3)
This course provides an understanding of the basic principles behind the formulation, manufacturing, storage, stability and bio-availability of drug products. Pre: PHY 111, PHY 185.
BPS 442 Pharmacogenetics and Pharmacogenomics (3)
This course presents principles on how genetic and genomic factors contribute to individual variation in drug response and how these principles can be used to produce effective and safe drugs. Pre: BCH 311, BPS 321.

BPS 443 Formulation and Manufacturing Laboratory (2)
This course will provide the principles and practical experience in the formulation and manufacturing of drug dosage forms. Pre: BPS 301/303/305.

BPS 451 Techniques in Medicinal Chemistry and Molecular Biology (4)
Provide students with an understanding of medicinal chemistry, molecular biology, and drug analysis techniques commonly used in pharmaceutical industry. The course combines laboratory exercises with easy-to-understand lectures. Pre: BCH 311, BPS 313, BPS 321.

II. 500/600-level courses

Changes:

1) College of the Environment and Life Sciences
   Department of Natural Resource Economics

EEC 595 Problems of Modernization in Developing Nations – change in course title, prerequisites, and catalog description to read:
EEC 595 Environment and Development Economics (3)
Application of economic principles and research methods to understand the economics of environmental and natural resource management and poverty alleviation. Pre: 528 or permission of instructor.

New Courses:

1) College of Pharmacy
   Department of Biomedical and Pharmaceutical Sciences

BPS 503 Pharmacokinetics & Pharmacodynamics for Scientists (3)
This course will present the principles of pharmacokinetics and pharmacodynamics with specific emphasis on their application in pharmaceutical science. Pre: MTH 131.

2) College of the Environment and Life Sciences
   Department of Biological Sciences

BIO 480/580 Community Ecology (3)
This course explores community ecology, with an emphasis on interspecific interactions (competition, predation, mutualism), species diversity, succession, niche theory, and island biogeography. Format includes lecture, case studies, and discussion. Pre: BIO 262 or permission of instructor.
BIO 412/512 Evolution and Diversity of Fishes (4)
Origin, evolution and diversification of fishes, their phylogenetic relationships, and morphological, physiological, ecological and behavioral adaptations in marine and freshwater habitats. (Lec. 3, Lab. 3) Pre: Bio 101, 102; 366 or permission of instructor.

3) College of the Environment and Life Sciences
Department of Fisheries, Animal and Veterinary Science

AVS 505 Advances in Animal Science (3)
Critical analysis of recent literature within the field of animal science. Students will gain experience in study design, grant proposal development and oral presentations. Pre: Graduate student in good standing or permission of instructors.

Proposed Changes in Degree Requirements

1) College of the Environment and Life Sciences
Department of Natural Resource Economics

EEC 527 MACROECONOMIC THEORY – eliminate as a requirement for the Ph.D. program.

2) College of the Environment and Life Sciences
Department of Cell and Molecular Biology (Clinical Lab Science Program)

There are three documents attached that describe changes proposed in the M.S. Clinical Laboratory Science Program. Reproduced below is one of those three documents that perhaps best describes the proposed changes.

TO: CELS Curriculum Affairs Committee
FROM: Jay Sperry, Chairman, Cell and Molecular Biology
Greg Paquette, Director, Biotechnology and Clinical Laboratory Science Programs
DATE: January 5, 2009
RE: Curriculum Revisions for MS Clinical Laboratory Science Program

We propose the following curricular revisions for the graduate clinical laboratory science program:

1) Specializations
   a) Consolidate the specialties of Clinical Chemistry, Clinical Microbiology, and Hematology/Immunohematology into a new specialty, “Medical Laboratory Sciences”.
   Students who are enrolled in these program specialties are certified and/or licensed clinical laboratory scientists. Their training, per the accreditation standards, is as a generalist in all of these areas. They are required by regulatory agencies, in order to maintain their certification and/or licensure, to maintain competency in all areas of clinical laboratory
Therefore, rather than having to declare the separate specialties, the new “Medical Laboratory Sciences” specialization would cover all of the content areas.

b) Create a new specialization in “Public Health Laboratory Sciences”. Many of the students who have graduated or are currently enrolled work in the public health laboratory industry. They have requested that there be a specific specialization in this area. Since we are using existing courses for this specialty, many developed over the years in response to the public health laboratory community (Bioterrorism and Emerging Infectious Disease, Public and Environmental Health, Epidemiology of Infectious Diseases, etc.) no new courses are required or proposed.

2) Program Requirements

a) Core courses: We currently require 15 credits of core courses: MTC 510, 512, 513, and 551, and EDC 505 or 529 or 582 or 583 or 584 (cytopathology students would continue to be allowed some additional core course options because that program requires a full-time, one-year clinical internship, followed by part-time completion of the core courses, giving them fewer options). We propose eliminating the EDC core requirement. This would allow students an additional three credits of electives, giving them more flexibility in program development to meet their specific educational and professional goals. We would continue to offer the minor specialization in adult education, which requires four of the five EDC course listed above. With the additional elective credits, students opting for this could utilize their elective credits for this purpose.

b) Specializations: The number of credits for each specialty would continue at 9 credits (except the cytopathology specialization which remains at 24 credits for accreditation purposes); however students would be allowed a broader choice of courses within each specialty; nine credits selected from:

(1) Biotechnology: BIO 437, MIC 422 and 534, and MTC 501, 541, 571, and 594
(2) Medical Laboratory Sciences: BIO 437, MIC 534 and 538, MTC 501, 502, 520, 530, 541, 543, and 591
(3) Public Health Laboratory Sciences: MIC 534 and 538, MTC 501, 541, 591, and 594

This is needed because of the three-year, part-time structure of the program. All of our courses are offered only every third year. Therefore, if a student misses a required course due to professional or personal reasons, he or she would have to wait an additional three years before being offered again, or take an acceptable substitute.

Please find attached a draft of the proposed 2009-10 catalog changes.
C. Scholarship/Fellowship Committee

VI. Old Business

VII. Adjournment