I. Call to order

II. Approval of Minutes of Meeting Number 458, 21 November 2011 (please see attachment)

III. Announcements

A. We have updated the language on the web site that specifies levels of English proficiency for international applicants. The updated language is underlined below, but not on the web site.

Applicants whose native language is not English must submit an official test report from the Test of English as a Foreign Language (TOEFL) taken with the past two years. You must arrange for ETS to report your scores directly to URI. The ETS institution code for URI is 3919 and you do not need to specify a department. Required minimum scores on the Internet-based (iBT) and Computer-based TOEFL are: Reading 20, Writing 22, Listening 17, Speaking 17; the suggested minimum speaking score for international teaching assistants is 23. The minimum score on the Paper-based TOEFL is 550. Individual programs may require a higher score; please check the graduate catalog for details on specific programs. Some departments may accept scores from the International English Language Testing System (IELTS), the Pearson Test of English, or the Common European Framework of Reference (CEFR) in place of TOEFL scores; please check with the department. The required minimum score on the IELTS is 6.5. The required minimum ranking on the CEFR is B2. The required minimum scores on the Pearson Test of English are: Reading 53, Writing 59, Listening 47, and Speaking 47; the suggested minimum speaking score for international teaching assistants is 62.

B. To alert students that the time limit to complete their degree is close at hand, an automatic hold will be placed on the enrollments of master’s students at the end of their fourth year, and on the enrollments of doctoral students at the end of their sixth year. The objective is to minimize the need for extension requests by alerting students to the fact that their time limit has
nearly expired. The wording on the eCampus 'service indicator' that students will see is........

You must meet with your major professor or advisor prior to registration because you are a) nearing the five-year time limit for completing a master's degree, or b) nearing the seven-year time limit for completing a doctoral degree. When a time line has been developed that will result in your graduation within the five- or seven-year time limit, that plan will be conveyed in writing to the Graduate School by the major professor or advisor so that the hold on registration can be removed.

V. Committees
   A. Curriculum Committee

I. 400 – level courses

   Changes:

   1) College of Engineering
      Department of Ocean/Civil and Environmental Engineering

      CVE 483 (OCE 483) – change in title to read Shallow Foundations. Change in catalog description to read: Applications of geotechnical engineering principles to analysis and design of shallow foundations. Foundation types, lateral earth pressures, bearing capacity, settlement, gravity retaining walls, cantilever sheet pile walls.

   2) College of the Environment and Life Sciences
      Department of Cell and Molecular Biology

      MIC 422 Biotechnology of Industrial Microorganisms - change in course listing and title to MIC/MLS 422 Biotechnology Manufacturing and in catalog description to read: The use of genetically altered microorganisms and eukaryotic cells for the production of therapeutic agents and vaccines. Upstream and downstream processing, Good Manufacturing Practices. (Lec. 3)

      Department of Natural Resources Science

      NRS 361 Watershed Hydrology and Management – change in course number to NRS 461, change in prerequisites to NRS 212, STA 308 or 409, or permission of instructor, change in course hours to Lec. 3, Lab 3, and change in course description to read: Detailed study of the watershed processes that govern the hydrology and quality of surface water. Emphasis on methods and analyses employed for watershed management. (Lec.3, Lab.3).

   New Courses:

   1) College of Arts and Sciences
      Department of Computer Science and Statistics

      CSC 424 Live Forensics and Incident Response (4)
Introduces concepts and skills necessary to conduct investigations of compromised workstations and servers. Presents techniques to determine necessary steps to take for proper containment, evidence collection, analysis and restoration. (Lec 3, Lab 2). Pre: CSC 420 or CSC 485 or permission of instructor.

II. 500/600-level courses

Changes:

1) College of Engineering
   Department of Civil and Environmental Engineering

**MLS 571 Biotechnology Product Evaluation and Development** – Request for online component of existing course.

2) College of Arts and Sciences
   Department of Library and Information Studies

**LSC 520 School Library Media Service** - change in credits to 3-4 and method of instruction to lecture and practicum. Change in catalog description to read: Prepare school librarians to meet RIFTS and five roles: teacher, information specialist, instructional partner, administrator and leader. Emphasis on teaching AASL information literacy standards. 60-hour field experience in schools included.

New Courses:

1) College of Arts and Sciences
   Department of Computer Science and Statistics

**CSC 523 Advanced Intrusion Detection and Defense (4)**
Presents advanced techniques and research on intrusion detection and network defense. Topics may include securing mobile devices, machine learning for intrusion detection, distributed firewalls, virtual private clouds, advanced persistent threats. (Lec 3, Lab 2). Pre: CSC 423 or permission of instructor.

**CSC 524 Advanced Incident Response (4)**
Presents advanced techniques and research for incident response and live forensics. Topics may include live forensics in cloud environments, visualization of security incidents, and live forensics in the smart grid. (Lec 3, Lab 2). Pre: CSC 424 or permission of instructor.

2) College of the Environment and Life Sciences
   Department of Cell and Molecular Biology

**MLS 581 Clinical Research (3)**
This course will cover the drug development process, principles of good clinical practice, clinical trial phases (I-IV), key players in clinical research and associated regulatory strategies. Online course. Pre: graduate or upper undergraduate standing or permission of instructor

   Department of Geosciences

**GEO 920 Geoscience Workshop for Teachers (1-3)**
Current issues in Geosciences. Specific topics offered for in-service teachers and administrators. May be repeated with different topic. (Workshop) Pre: teacher certification. S/U grading

3) College of Engineering
   Department of Ocean Engineering

**OCE 516 Biomimetics in Ocean Engineering (3)**
Biologically-inspired design mechanics in ocean engineering applications. Topics include unsteady propulsion (fish swimming), dynamic lift, high-speed maneuvering, energy extraction, drag reduction, and optimization. Pre: OCE 515 or permission of instructor

Department of Civil and Environmental Engineering

**CVE 540 Public Transportation Systems (3)**
Bus and rail modes; technological characteristics on capacity, service quality, costs; analysis, evaluation; performance monitoring, route and network design; frequency determination; vehicle scheduling; advanced operations strategies. Pre: Understanding of fundamentals of transportation systems; written and analytical skills; mathematical preparation to understand basic algebraic relationships, probability and statistics, and cost analysis; permission of the instructor

**CVE 586 Earth Retaining Structures (3)**
Analysis and design of earth retaining structures. Advanced seepage analysis. Mechanically stabilized earth walls, anchored bulkheads, braced excavations, and cofferdams. Slope stability analysis and slope stabilization. Pre: 381 or equivalent

4) The Graduate School

**NEU 501 Introduction to the Neurosciences (4)**
Introduction to basic neuroscience areas, including gross and microscopic anatomy, neural development, membrane physiology, sensory and motor systems, language, cognition, neuropharmacology, neuroengineering, and psychological disorders. (Lec 3; Rec 1) Pre: Graduate standing and enrollment in INP or permission of the instructor.

**Additional Curricular Matters**

College of the Environment and Life Sciences

**MEMORANDUM**
TO: Faculty Senate Curriculum Committee
FROM: CELS Curriculum Committee
DATE: October 14, 2011
RE: Catalog Description Change for the Biological and Environmental Sciences Graduate Degrees (M.S. and Ph.D.)
The College of the Environment and Life Sciences requests the addition of the following text to the catalog description of the interdepartmental Biological and Environmental Sciences graduate program.

Add new text under **Graduate Specialization Groups**:
Sustainable Agriculture and Food Systems (SAFS): this graduate research group takes a
systems-based, interdisciplinary approach to the biological and environmental sciences as applied to agriculture, aquaculture, fisheries, nutrition, and food safety. Our diverse group of faculty, with contributors from both the natural and social sciences, uses a broad array of approaches, from molecular to ecosystem-based, to help achieve the economically sustainable production, management, consumption, and utilization of plants and animals for the development of healthy communities. Areas of research include animal science (reproduction, nutrition, management, and health), aquaculture (ecology, physiology, nutrition, and aquatic pathology), horticulture (fruit and vegetable production, environmental horticulture, and turfgrass management), entomology and biocontrol of invasive species, nutrition and food safety, and soil science.

Rationale:
The existing catalog description includes descriptions for four specialization groups: Cell and Molecular Biology, Integrative and Evolutionary Biology, Ecology and Ecosystem Sciences, and Environmental and Earth Science. The addition of this group description allows us to represent a research focus area that was not well captured in the other 4 groups. The additional of this text will better communicate to prospective students the breadth of graduate research opportunities available in the College under the interdepartmental BES degree program.

The program requirements for the BES degrees (M.S. and Ph.D.) remain unchanged.

VI. Old Business

A. The issue of co-major advisors revisited.

Existing language

“8.32. All major professors must be members of the Graduate Faculty, and must be willing to serve in that capacity. Upon recommendation by the department Chair, major professors will be appointed by the Dean of the Graduate School to carry out the duties noted in the following paragraphs.”

One possible resolution involving modifying Section 8.32 of the Graduate School Manual (underlined words are possible new additions to this section) –

8.32. All major professors must be continuing, tenure-track members of the University of Rhode Island Graduate Faculty. Adjunct faculty cannot serve as sole major professors on thesis or dissertation committees. (**)possible insertion here; see below) Upon recommendation by the department Chair, major professors will be appointed by the Dean of the Graduate School to carry out the duties noted in the following paragraphs.

** In cases where co-major professors are deemed necessary and appropriate, one, but not both of the two co-major professors could be an Adjunct Professor who carries Graduate Faculty Status at the University of Rhode Island.

B. Policies surrounding Graduate Faculty Status – should newly hired tenure-track faculty holding the degree of Ph.D. automatically become members of the Graduate Faculty?

VII. Policy Issues and Initiatives

A. The suggestion was made at the recent Graduate School Retreat to place a hold on a student’s enrollment if they have completed 15 credits of coursework, but have yet to submit an approved Program of Study. We would like to discuss this possibility.

B. A.C.E. Language Institutes and their potential relationship to graduate education at URI.

VIII. New Business

IX. Adjournment