11-19-2015

Curricular Report No. 2015-16-1 from the Graduate Council to the Faculty Senate.

University of Rhode Island Faculty Senate

THE
UNIVERSITY
OF RHODE ISLAND
FACULTY SENATE OFFICE
Green Hall, 35 Campus Avenue, Kingston, RI 02881 USA p: 401.874.2616

THINK BIG WE DO™

Serial Number #15-16—10A

The attached BILL titled, Curricular Report No. 2015-16-1 from the Graduate Council to the Faculty Senate, was adopted by vote of the Faculty Senate on November 19, 2015.

The Bill is effective on the date of signature below.

Chairperson of the Faculty Senate

11-19-15
Date

GRADUATE COUNCIL CURRICULUM REPORT #1, OCTOBER 2015

I. 400-level courses (undergraduate courses for graduate credit)

Changes

College of Arts and Sciences
Computer Science

CSC 406: Computer Graphics
Change in prerequisites to "CSC 212 and either MTH 215 or MTH 362, and student must be admitted to a degree-granting college."

CSC 436: Database Management Systems
Change: course is being offered online.

Mathematics

MTH 441: Introduction to Partial Differential Equations
Change in prerequisites to "MTH 243 and (MTH 244 or MTH 362)."

College of Environmental and Life Sciences
Cell and Molecular Biology

BCH 412: Biochemistry Laboratory
Change in title to "Advanced Biochemistry Laboratory I."
Change in description to "LAB: (3 crs.) An introduction to laboratory biochemical techniques and methods for the purification and analysis of biological macromolecules, in particular, DNA and protein."
Change in prerequisites to "BCH 311, and BCH 312 or MIC 211; or by permission of instructor."

New Courses:

Graduate School of Oceanography
Oceanography

OCG 404 (NRS 404, GEO 404): Environmental Data Acquisition and Analysis
Introduction to instrument prototyping and measurements in environmental science. Hands-on work with data collection: programming microcontrollers, interfacing hardware and software, wireless sensor networks. Data analysis in Python. Pre: MTH 131 or MTH 141; or permission of the instructor.

I. 500/600-level courses

Changes:

College of Arts and Sciences
English

ENG 595: Master's Project
Change in number of credits from 3 to 1-6.

Physics

PHY 555: Radiation Oncology
Change in title to "Radiation Oncology Clinical Practicum."
Change in description to "Provide the student a base knowledge and overview of medical physics in the environment of a modern radiation oncology clinical practice, opportunities for practical clinical training as a Medical Physicist, and a familiarity with the roles and practices of the clinical team tasked with the treatment of cancer patients. "
Change in prerequisite to "PHY 550 and PHY 552 or permission of instructor."
Change in course credits from 3 to 4 (Lec.3 to Lec. 3, Practicum 1)

PHY 560: Experimental Methods in Condensed Matter Science
Change in title to "Experimental Methods in Modern Physics."
Change in description to "Overview of the main principles that underlie selected experimental methods used in physics, engineering, chemistry, biology, and medicine."
Change in prerequisite to "MTH 244 or permission of instructor."

College of Human Science and Services
School of Education

EDP 665: Social Justice in Higher Education
Change in course code to "EDC 665."
Change in prerequisites to "Admission to Joint URI/RIC PhD in Education Program; or Graduate status with permission of instructor."

New Courses

College of Arts and Sciences
Physics

PHY 585: Advanced Clinical Medical Imaging
This course covers advanced topics in diagnostic and clinical imaging modalities with an emphasis on clinically relevant modalities. Modalities include radiography, fluoroscopy, computed tomography, nuclear imaging, mammography, magnetic resonance imaging, ultrasound and positron emission tomography. (Lec. 3, Practicum 1) Pre: ELE 564 or permission of instructor.

College of Environmental and Life Sciences
Cell and Molecular Biology

CMB 560X: Experimental Approaches in Molecular Biology
This course addresses modern approaches to studying problems in advanced biochemistry, molecular and cell biology, including experimental design, genetics-based tools, fluorescence-based methodology, functional interactions, high-resolution microscopy and single molecule studies. (Lec. 3) Pre: Graduate standing in BES or permission of instructor.

Geosciences

GEO 535 (NRS 535, CVE 535): Geospatial Watershed Modeling
Tools to simulate the water quantity and quality of a complex watershed; development of models for examining the water quantity and quality issues that are associated with watershed management. Pre: NRS 461 or Geo 483 or CVE 475 or equivalent, or graduate standing, or permission of instructor.

Marine Affairs

MAF 530 (HIS 530): Marine Environmental History
Provides background on the history of human interactions with the marine environment with insight into historical methodologies. (Lec. 3) Pre: Graduate standing or permission of instructor.