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The Five Hundred and Fortieth Report of the Curricular Affairs Committee.

University of Rhode Island Faculty Senate

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Serial Number #16-17-28A

The attached BILL titled, The Five Hundred and Fortieth Report of the Curricular Affairs Committee, was adopted by vote of the Faculty Senate on April 20, 2017.

The Bill is effective on the date of signature below.

A handwritten signature in dark ink, appearing to read "W. Michael Sullivan", written over a horizontal line.

W. Michael Sullivan
Chairperson of the Faculty Senate

April 20, 2017

UNIVERSITY OF RHODE ISLAND FACULTY SENATE April 20, 2017

Faculty Senate Curricular Affairs Committee Five Hundred and Fortieth Report

At the March 27, 2017 meeting of the Curricular Affairs Committee and by electronic communication, the following matters were considered and are now presented to the Faculty Senate.

SECTION I Informational Matters

ONLINE COURSES

The CAC has approved the following course for online offering:

- AST 108, Introductory Astronomy: Stars and Galaxies
- AST 118, Introductory Astronomy: The Solar System
- CLA 391, Ancient Laughter: The Comic Tradition in Greece and Rome
- CLA 397, Greek Myth and Tragedy
- CVE 445, Sustainable Pavement Design
- PRS 100, Introduction to Public Relations

COURSE CHANGES

COLLEGE OF ARTS AND SCIENCES:

Change prerequisite:

SOC 440 (301), Sociological Research Methods

(3 crs.) Scientific method in sociological research; emphasis on the development of the ability to construct and evaluate data-based arguments; topics include the nature of evidence, research design, principles and techniques of sampling, data collection and interpretation. (Lec. 3) Pre: 9 credits in SOC. Open only to SOC or CCJ majors with junior or senior standing, or permission of instructor.

SOC/PSC/CCJ 476, Policy Issues In Criminal Justice

(3 crs.) Cross-listed as (SOC), CCJ, PSC 476. Examination of current and proposed criminal justice policies in light of social science theory and research, including capital punishment, community policing, gun control, intermediate sanctions, legalization of drugs, mandatory sentencing, privatization of prisons, restorative justice. (Seminar) Pre: SOC 274 or 274H (or PSC 274 or 274H, or CCJ 274 or 274H) and ECN 306, PSC 310, PSY 200, or SOC 440 (301), and senior standing; or permission of instructor. Not for graduate credit.

COLLEGE OF ENGINEERING:

Change prerequisite:

BME/CHE 466, Biomaterials Engineering

(3 crs.) Cross-listed as (BME), CHE 466. A biomaterial is any material designed to interact with a biological system. This course will examine the structure, properties, and processing of biomaterials in a wide variety of biomedical applications. (Lec. 3) Pre: (CHM 124 or CHM 227, and BIO 341, and MTH 244 or 362) or permission of instructor.

COLLEGE OF HEALTH SCIENCE:

Change method of instruction:

EDC 250, Supervised Preprofessional Field Experience

(1 cr.) Supervised early field experience and seminar for students wishing to explore one or more possible career choices in education. (Lec., Practicum) May be repeated for credit. S/U only.

SECTION II Curricular Matters Which Require Confirmation by the Faculty Senate

NEW COURSES

COLLEGE OF ARTS AND SCIENCES:

AAF 230, Black Lives Matter Movement

(3 crs.) Develop understanding of how and why the Black Lives Matter Movement came into existence, comparing it to the Civil Rights Movement. Defines African American culture today. (Lec. 3)

AAF / RLS 295, Religion in African American Thought & Culture

(3 crs.) Cross-listed with (AAF), RLS 295. Religion in African American Thought & Culture is an exploration of the role religion has played in African American cultural formation. (Lec. 3)

ASL 101, American Sign Language I

(3 crs.) For students with little or no previous knowledge of ASL. Acquisition of basic grammar and lexical skills to communicate in routine social or professional situations. (Lec. 3)

ASL 102, American Sign Language II

(3 crs.) Continuation of American Sign Language I. Builds on the basic grammatical, linguistic, communicative and cultural concepts learned in ASL 101. (Lec. 3) Pre: Students should have taken ASL 101 or equivalent.

COM 321, Social Media and Interpersonal Communication

(3 crs.) Explore theories and research on interpersonal communication and social media. Examine social media uses and impact on communication, perceptions, identity construction, relationships, and society. (Lec. 3)

DSP 393, Introduction to Predictive Analytics

(3 crs.) The course implements an active learning pedagogy for students to meticulously and systematically work with “Big Data” to develop data-driven predictive models for decision-making. (Lec. 3) Pre: BUS111 or MTH131 or MTH141, and STA308 or BUS210. Permission of instructor.

HIS 318, The Jews: Religion and People

(3 crs.) This course explores Jewish history, from the Bible to the present. By examining both text and art, we investigate how Jewish ideas and practices developed in dialogue with non-Jewish culture. (Lec. 3) Pre: Sophomore standing or permission of instructor.

LAN 220, Understanding Languages in Cultural Context

(3 crs.) Introduction to understanding the interaction of language and cultures from a linguistic perspective. Topics include cultural analysis, intercultural pragmatics, linguistics, sociolinguistics. (Lec. 3)

PRS 490, Practicum in Public Relations

(3 crs.) Supervised field and PR production lab experience. Entails substantial field and client-based activities in the collaborative drafting, design and production of public relations projects. May be repeated for credit up to a maximum of 6 credits. (Prac. 3) Pre: Permission of the instructor. Not for graduate credit.

COLLEGE OF BUSINESS:

BUS 249, Business of Innovation: Lean Startup

(3 crs.) Applies the Lean Startup Scientific Method for developing and commercializing ideas for new ventures (entrepreneurship), and innovating new products, services or business models within existing companies (intrapreneurship). (Lec. 3)

COLLEGE OF EDUCATION AND PROFESSIONAL STUDIES:

EDC 100, Great Public Schools: Everyone's Right? Everyone's Responsibility?

(3 crs.) Interdisciplinary, critical examination of the current diversity and equity issues in the American public education system PK-20. (Seminar 2, Online 1)

COLLEGE OF ENVIRONMENT AND LIFE SCIENCES:

AVS 442, Physiology and Behavior of Marine Mammals

(3 crs.) An exploration of how marine mammals exploit aquatic environments, combining examination of research literature with experiential learning in lab and aquarium facilities locally and abroad. Travel required; additional costs apply. (Lec. 1, Lab. 2) Pre: Sophomore standing or above and a major in any department in CELS and permission of instructor. Not for graduate credit.

BIO 181, The Information Age: From Politics to Medicine

(3 crs.) How big data affects our society, from advertising to politics to medicine. (Lec 3) Not for major credit for B.S. Biological Sciences or B.A. Biology.

BIO 308, The Invisible Living Ocean

(3 crs.) The goal of this course is to explore the major groups of marine organisms that are mostly invisible to the naked eye, which fuel food webs, drive global biogeochemical cycles and affect climate. (Lec. 3) Pre: BIO 101, BIO 102 or permission of instructor.

BIO 310, Bermuda Marine Biodiversity

(2 crs.) Based at the Bermuda Institute for Ocean Sciences, this course provides students with experience in biodiversity assessment in the field, blending fieldwork, lectures and laboratory manipulation. Additional fee required. (Lab. 2) Pre: Concurrent enrollment in BIO 308 or permission of instructor.

CMB 265, Science and Pseudoscience

(3 crs.) Course designed to introduce students to a variety of current subjects that are hotly debated between the scientific community and the public. (Lec. 3)

COLLEGE OF ENGINEERING:

ISE 334, Simulation Modeling and Analysis

(3 crs.) Simulation of complex deterministic/stochastic systems. Random number generation. Input and output analyses. Spreadsheet simulations Design of simulation experiments. Applications in manufacturing, supply-chain, networks, military, health care, service systems. (Lec. 2, Lab. 3) Pre: ISE 311 (411) or permission of instructor.

ISE / SUS 461, Solar Energy Systems

(3 crs.) The study of renewables via solar energy systems. Methods, economic criteria, and background for assessing the systems of solar energy conversion technologies both in local and international settings. (Lec. 3) Pre: (junior standing, PHY 204, and MTH 142), or permission of instructor.

MCE 485, Solar Thermal Engineering

(3 crs.) Course covers principles of solar radiation, natural and forced convection, radiation characteristics of materials, and applications to flat-plate and concentrating collectors, and tools designed for passive and active solar heating/cooling systems. (Lec. 3) Pre: MCE 348 or permission of instructor. Not for graduate credit.

NUE 475, Measurements in Nuclear Engineering

(3 crs.) Experimental methods in nuclear engineering including radiation detection and measurement experiments, reactor control and reactivity experiments. (Lab.) Pre: MCE 471 / CHE 471 or NUE 391, or permission of instructor. Not for graduate credit.

GRADUATE SCHOOL OF OCEANOGRAPHY:**OCG 150, Coastal Oceanographic Data in RI Waters**

(3 crs.) Collecting oceanographic data during on-the-water field experience in Rhode Island coastal waters. Students work in teams constructing, deploying, recovering and analyzing data from various oceanographic instruments. For declared STEM majors. (Lec. 2, Lab. 1) Pre: permission of instructor.

COURSE CHANGES**COLLEGE OF ARTS AND SCIENCES:****Change prerequisite:****CSC 211, Object-Oriented Programming**

(4 crs.) Problem specification, solution design, and algorithm development. Object-oriented programming and program structure. Functions, selection, iteration, recursion, classes, arrays, and files. Required programs will solve numerical and nonnumerical problems. (Lec. 3, Lab. 2) Pre: CSC 106 or major in Computer Engineering.

CSC 212, Data Structures and Abstractions

(4 crs.) Abstract data types and data structures. Pointers, linked lists, stacks, queues, binary trees, and tables. Fundamentals of software engineering. Development of object-oriented programming techniques. (Lec. 3, Lab. 2/Online) Pre: C- or better in CSC 211. Intended for computer science and computer engineering majors.

COLLEGE OF BUSINESS:**Change prerequisite:****BUS 111, Introduction to Business Analysis and Application**

(3 crs.) Selected mathematical tools and techniques for analysis of business and economic problems and as aids in decision making. Topics from finite and modern mathematics and applied calculus. (Lec. 3) Pre: open to students passing a placement test or earning a C- or better in MTH 110 or permission of instructor. (B3)

BUS 320, Financial Management

(3 crs.) Study of the basic principles of finance and the applications of these principles. Topics include time value of money, risk and return, valuation, capital budgeting and other corporate financial decisions. (Lec. 3) Pre: ECN 201 or EEC 105, BUS 201, 210 or STA 308.

BUS 359, Management Systems Analysis

(3 crs.) Analysis, concepts, methods, and techniques leading to the design of strategies to improve business processes. (Lec. 3) Pre: BUS 355 and junior standing in a degree granting college, or permission of instructor.

COLLEGE OF ENGINEERING:

Change course code, title, description, and prerequisite:

EGR (OCE) 313, Computational Solutions of Engineering Problems

(3 crs.) Fundamentals of computational techniques in engineering, including algorithm development, programming, MATLAB scripts, numerical solutions of problems from various engineering disciplines, and error, stability and accuracy analysis. (Lec. 3) Pre: MTH 244 or permission of instructor.

COLLEGE OF HEALTH SCIENCES:

Change number and prerequisite:

PSY 435 (302), Applied Methods in Psychological Research

(3 crs.) This course will provide a structured training experience addressing data management, statistical analysis, how to handle methodological problems, and interpretation of results for applied psychology research topics. (Lec. 2, Lab. 2) Pre: Grades of C or higher in either STA 308 or PSY 200 (previously PSY 300), and in PSY 301 and PSY 434, or permission of the instructor. Not for graduate credit.