

UNIVERSITY OF RHODE ISLAND
The Graduate School
CURRICULAR REPORT FROM THE GRADUATE COUNCIL TO THE FACULTY
SENATE: REPORT NO. 2007-2008-7

At meeting No. 427 held April 18, 2008, the Graduate Council considered and approved the following curricular matters which are now submitted to the Faculty Senate for information or confirmation as indicated.

I. Matters of Information

A. College of Engineering

1. Department of Electrical, Computer and Biomedical Engineering

a. Changes:

ELE 545 Design of Digital Circuits – change in title, method of instruction, prerequisite and catalog description to read:

ELE 545 Advanced Digital Circuits and Systems (4)

Advanced topics in Boolean algebra and digital designs. Arithmetic circuits, low-power designs, cryptography, communication, concurrent error detection/correction, SoC, and quantum computing. Project in design and implementation of complex digital systems. (Lec. 3, Proj. 3)
Pre: 306 or equivalent or permission of instructor.

2. Department of Chemical Engineering

a. Changes:

CHE 513 Advanced Chemical Engineering Thermodynamics I – change in prerequisite to read:

CHE 513 Advanced Chemical Engineering Thermodynamics I

Pre: 313, 314 or equivalent, graduate standing, or permission of instructor.

CHE 541 Transport Phenomena – change in prerequisite to read:

Pre: 347, 348 or equivalent, graduate standing, or permission of instructor.

CHE 591 Special Problems – change in prerequisite to read:

Pre: permission of instructor.

CHE 592 Special Problems – change in prerequisite to read:

Pre: permission of instructor.

CHE 691 Special Problems – change in prerequisite to read:

Pre: permission of instructor.

CHE 692 Special Problems – change in prerequisite to read:

Pre: permission of instructor.

3. Department of Mechanical Engineering

a. Change:

MCE 530 Real-Time Monitoring and Control – change in catalog description to read:

MCE 530 Real-Time Monitoring and Control

Fundamentals of the development of real-time software for monitoring and control. Mechanical systems computer interfacing, timing, cooperative and preemptive scheduling, distributed control, RTOS, and embedded control. Laboratory exercises.

B. College of Nursing

1. Changes:

NUR 601 Foundations of Nursing Science – change in prerequisite and catalog description to read:
NUR 601 Foundations of Nursing Science (3)

Analysis of the nature of nursing knowledge from the historical and epistemological perspectives. Focus on examination of theoretical, ethical, and methodological foundations of the development of nursing science and nursing practice. Pre: Enrollment in PhD or DNP program in Nursing.

NUR 660 Philosophical Foundations for Health Care Research – change in prerequisite to read:
NUR 660 Philosophical Foundations for Health Care Research (3)

Pre: Enrollment in PhD or DNP program in Nursing, or permission of instructor.

NUR 651 Advanced Methods in Nursing Research I – change in prerequisite and catalog description to read:

NUR 651 Advanced Methods in Nursing Research I (3)

In-depth study of approaches used in qualitative research including philosophical underpinnings and research design, and their potential application to knowledge development in nursing practice.

Pre: Enrollment in PhD or DNP program in Nursing, advanced statistics course or permission of instructor.

NUR 652 Advanced Methods in Nursing Research II – change in prerequisite and catalog description to read:

NUR 652 Advanced Methods in Nursing Research II

In-depth study of application of theories and methods in sampling, research design, data collection and data analysis for quantitative and evaluation research in nursing.

Pre: Enrollment in PhD or DNP program in Nursing, NUR 651 or permission of instructor.

NUR 549 Evidenced Based Strategies in Health Care Program Evaluation – change in catalog description to read:

NUR 549 Evidenced Based Strategies in health Care Program Evaluation

Analysis and application of evidenced-based methods, translation of research into practice, and evaluation of practice to improve health care outcomes.

NUR 551 Theoretical Study of Nursing Administration – change in title and catalog description to read:

NUR 551 Theoretical Study of Nursing Administration/Leadership

Study of concepts, theories and strategies underpinning planning, decision-making and quality improvement activities in health care administration/leadership.

NUR 506 Independent Study in Nursing – change in title to read:

NUR 506 Independent Study

C. College of the Environment and Life Sciences

1. Department of Landscape Architecture

CPL 511 Planning and Natural Environmental Systems – change in course number, title, prerequisite, and catalog description to read:

CPL 485 Environmental Planning (3)

Theories, methodologies, and substantive concerns of environmental resource analysis with attention given to coastal environmental issues. Focus on land, soils, watersheds, water quality,

vegetation, air quality, wildlife, noise pollution. (Lec. 3) Pre: junior, senior, or graduate standing, or permission of instructor.

CPL 530 Urban Design and Public Policy – change in course number, title, prerequisite, and catalog description to read:

CPL 450 Urban Design (3)

Concepts of contemporary urban landscapes, ranging from entire cities to specific building sites. Includes private development, public spaces, transportation systems, aesthetics and sprawl. Emphasis on urban design processes and standards. (Lec. 3) Pre: junior, senior, or graduate standing, or permission of instructor.

CPL 545 Land Development Seminar – change in course number, title, prerequisite, and catalog description to read:

CPL 483 Land Development (3)

Study of land development including land acquisition, development and project effectiveness. Techniques focus on land suitability and project viability, as well as environmental considerations. Focus on coastal development. (Lec. 3) Pre: junior, senior, or graduate standing, or permission of instructor.

GEG 511 Geography for Life: Educational Strategies – change in title, prerequisite and catalog description to read:

GEG 511 Geographic Applications in the K-12 Curricula (3)

Learning how geography interrelates with other topical curricula. Classroom teachers integrate geographic concepts, for lesson plan development using National Geographic Standards and other source materials, into their subject specialization. Emphasis on the spatial aspects of all curricula. (Lec. 3) Pre: graduate standing, or permission of instructor.

D. College of Business Administration

1. Department of Entrepreneurial Management

BUS 515 Law and Accounting – change in course number and prerequisite

MAC 515 Law and Accounting

Pre: MBA 530 or BUS 315 or BUS 317 or permission of dean.

II. Matters Requiring Confirmation by Faculty Senate

A. College of Engineering

1. Department of Electrical, Computer and Biomedical Engineering

a. New Courses:

ELE 562 Biomedical Instrumentation Design (3)

Principles of physiological measurements, patient safety, isolation, noise rejection, biomedical signal processing, electrocardiogram, pulse oximeter, electroencephalogram, pacemaker, cardiac assist devices, pressure and flow measurements. Not for undergraduate credit. Not open to students who have credit in BME462. (Lec. 3). Pre: Graduate standing in electrical engineering or permission of instructor.

ELE 563 Biomedical Instrumentation Laboratory (1)

Development of a portable heart function monitor that measures the electrocardiogram and photoplethysmogram; Embedded system design using instrumentation amplifier, op-amp, graphic LCD

module, and PIC microprocessor with C programming. Not for undergraduate credit. Not open to students who have credit in BME463. (Lab. 3) Pre: Graduate standing in electrical engineering or permission of instructor.

b. Deletion:

ELE 589 Biomedical Engineering II

2. Department of Chemical Engineering

a. New Course:

CHE 529 Polymer Experimental Methods (3)

Theory and practice of experimental methods used to characterize and process polymer systems. Characterizations include chemical, thermal, and mechanical analysis. Lectures discuss methods beyond those applied in lab. (Lec. 2, Lab. 2) Pre: permission of instructor.

3. Department of Mechanical Engineering

a. New Course:

MCE 538 Mechanical Engineering Systems (3)

Modeling and simulation of typical mechanical, thermal, fluid and electromechanical elements found in mechanical engineering systems. Feedback control concepts. Control software structures, and software implementation of control systems. (Lec. 3) Pre: Graduate standing or permission of instructor.

B. College of the Environment and Life Sciences

1. Department of Nutrition and Food Sciences and Department of Fisheries, Animal and Veterinary Sciences

a. New Course:

NFS/AVS 504 Food Systems, Sustainability and Health (3)

Scientific analysis of animal and human health and nutrition in various food systems. Interdisciplinary discussion on food systems and sustainability. (Lec. 3) Pre: Graduate student in good standing or permission of instructor.

C. College of Nursing

1. New Courses:

NUR 680 Informatics in Health Care Settings (3)

Theory and application of nursing science, computer science and information science for decision making, practice management and communication in health care settings. (Lec. 3) Pre: DNP enrollment or permission of instructor.

NUR 686 Doctor of Nursing Practice Role Development (1-6)

Implement the role of the doctorally prepared advanced practice nurse in selected clinical settings. Practicum experiences will be related to research, informatics, leadership, evidence-based practice, and health care policy. Pre: Enrollment in DNP program and concurrent enrollment in NUR 651, NUR 680, NUR 652, NUR 549, HDF 527 or NUR 688, or permission of instructor. May be repeated with a different focus for a maximum of 6 credits.

NUR 688 DNP Capstone Practicum and Project (7)

A synthesis of prior practicums in the student’s area of interest, applying theoretical knowledge and research findings at the individual, professional, organizational, and societal levels culminating in a final written and defensible capstone project. Pre: MBA 540, HDF 527, and 5 credits of NUR 686; concurrent enrollment in NUR 686.

D. College of Pharmacy

Program Closures:

Applied Pharmaceutical Sciences	Master of Science
Applied Pharmaceutical Sciences	Doctor of Philosophy
Medicinal Chemistry	Master of Science
Medicinal Chemistry	Doctor of Philosophy
Pharmacognosy	Master of Science
Pharmacognosy	Doctor of Philosophy
Pharmacology and Toxicology	Master of Science
Pharmacology and Toxicology	Doctor of Philosophy

E. College of Arts and Sciences

1. College Writing Program

New Course:

WRT 691 Independent Study in Rhetoric (1-3)

Advanced study of an approved topic in Rhetoric & Writing Studies under the supervision of a graduate faculty member. Pre: Permission of WRT Graduate Director. May be repeated for a maximum of six credits.