

Serial Number #18-19-28A

The attached BILL titled, Curricular Report No. 2018-19-13 from the Graduate Council to the Faculty Senate (courses) was adopted by vote of the Faculty Senate on May 2, 2019.

The Bill is effective on the date of signature below.



Hillary Leonard
Chairperson of the Faculty Senate

May 2, 2019

**Graduate Curricular Report #2018-19-13
April 2019**

**Section I
Informational Matters**

400 LEVEL COURSE CHANGES

***College of Engineering
Ocean Engineering***

OCE 408 Introduction to Engineering Wave Mechanics and Littoral Processes
New prerequisites: PHY 205, MCE 354, OCE 315 and OCE 301, or permission of instructor.

Electrical, Computer, and Biomedical Engineering

ELE 423 Electromagnetic Fields II
Reduce credit from 4 to 3 with concurrent creation of a required 1 credit laboratory course
New prerequisites: (ELE 313, 322, 338, 339, and credit or concurrent enrollment in 424)) or permission of instructor.

***College of Arts & Sciences
Political Science***

PSC 434 American Foreign Policy
Make eligible for Graduate credit.

500 and 600 LEVEL COURSE CHANGES

***College of Environment and Life Sciences
Cell and Molecular Biology***

CMB 500 Principles and Techniques of Molecular Cloning
Course deletion.

CMB 506 Biology of Eukaryotic Microorganisms/ Protists
Course deletion.

CMB 523 Special Topics in Biochemistry
New title: special Topics in Cell and Molecular Biology

CMB 524 Special Topics in Biochemistry
Course deletion.

CMB 593 The Literature of Bacteriology
New title: The Literature of Cell and Molecular Biology
New Description: Thorough study of original literature of some aspect of cell and molecular biology. Written abstracts or papers on assigned topics are discussed in weekly conferences with instructor.

CMB 594 The Literature of Bacteriology

Course deletion.

CMB 651 Research in Biochemistry

New title: Research in Cell and Molecular Biology

CMB 652 Research in Biochemistry

Course deletion.

CMB 691 Special Problems in Microbiology

New title: Special Problems in Cell and Molecular Biology

CMB 692 Special Problems in Microbiology

Course deletion.

CMB 930 Workshop in Microbiology Topics for Teachers

Course deletion.

College of Nursing

NUR 671 Role Development in Nursing Research

New Prerequisites: Doctoral Standing in Nursing.

**Section II
Curricular Matters Which Require Confirmation
By the Faculty Senate**

NEW COURSE PROPOSALS

400 LEVEL

College of Engineering

ELE 424 Electromagnetic Fields II Laboratory

Laboratory exercises related to topics in ELE 423. (Lab 1) Prerequisites: Credit or concurrent enrollment in ELE 423.

***College of Environmental and Life Sciences
Cell and Molecular Biology***

CMB 420X Microbiomes, Biofilms and Bacterial Communities

Description: A study of bacterial microbiomes and their interaction with hosts and/or their environment. Emphasis will be placed on attached bacterial communities in environmental and disease contexts. (Lec. 3) Prerequisites: either CMB 201 or CMB 211, and CMB 311; or Graduate Standing.

500 and 600 LEVEL

College of Engineering Mechanical, Industrial and Systems Engineering

ISE/PSY 520 Human Factors & Ergonomics

A study of human capabilities, mental and physical, and their interactions within the systems where they perform their jobs to help optimize design, improve jobs, and enhance system performance. (Lec. 3) Prerequisites: Graduate standing or permission of instructor. This course is not open for the students who have prior credit in the 400-level version (ISE/PSY 420).

ISE/PSY 521 Human Systems Engineering

A study of human capabilities via mental processing and decision making models where students will learn to develop, use, and validate models of human cognitive performance for individuals and teams. (Lec. 3) Prerequisites: Graduate standing or permission of instructor.

College of Education and Professional Studies

EDP 600 Academic Reading & Writing for Doctoral Studies

Students develop and practice academic reading, writing, and thinking skills involved in professional practices of educational research and publishing communities. Course emphasizes scholarly identity and writing cogent literature reviews. (Lec. 2, Sem. 1)

EDP 601 First Year ProSeminar for Ph.D. in Education

Students are introduced to educational research paradigms and related areas of program faculty expertise. Course focuses on engaging in academic conversations and multiple ways to address research problems in education. (Sem. 3)

College of Environmental and Life Sciences Natural Resources Science

EVS 509 Web-based Mapping 1

This course is designed to provide grounding in the conceptual foundations of GIS while developing competency using web-based GIS tools to explore and communicate spatial information. (Online 2) Prerequisites: Enrolled in Graduate Certificate in Natural Resources and Environment or permission of instructor.

EVS 511 Web-based Mapping 2

This course is designed to develop expertise using web-based GIS tools to analyze spatial patterns and relationships that are relevant to environmental and natural resource management. (Online 2) Prerequisites: Enrolled in Graduate Certificate in Natural Resources and Environment and EVS 509 or permission of instructor.

EVS 514 Environmental Data Management and Visualization

This course focuses on developing knowledge and skills to manage environmental datasets using best practices to ensure data quality as well as employing standard approaches to summarize and communicate findings. (Online 2) Prerequisites: Enrolled in Graduate Certificate in Natural Resources and Environment or permission of instructor.

EVS 515 Environmental Data Analysis

This course will provide a foundation for analyzing environmental datasets to inform scientific understanding and management decisions, with a particular focus on tools for natural resource management and monitoring. (Online 2) Prerequisites: Enrolled in Graduate Certificate in Natural Resources and Environment and EVS 514 or permission of instructor.

EVS 518 Sustainable Natural Resource Management

This course provides an in-depth exploration of emerging and established approaches to sustainable natural resource management from a variety of disciplines. (Online 2) Prerequisites: Enrolled in Graduate Certificate in Natural Resources and Environment or permission of instructor.

EVS 519 Natural Resource Management Planning

This course presents frameworks for natural resource decision making that facilitate development of management objectives, evaluation and selection of management alternatives, and assessment of management outcomes. (Online 2) Prerequisites: EVS 509, EVS 511, EVS 514, EVS 515, EVS 518 and enrolled in Graduate Certificate in Natural Resources and Environment or permission of instructor.

College of Business**MHM 501 Healthcare in America**

This course examines the structures, regulations, financing, economics, policies and incentives that shape the US healthcare sector. (Online 3) Prerequisites: Open to graduate students only.

MHM 503 Financial management of Healthcare Organizations

The course introduces students to the basic principles of financial analysis and management reporting, revenue cycle management, resource allocation decisions, and budgeting for healthcare organizations. (Online 3) Prerequisites: Open to graduate students only.

MHM 505 Healthcare Information Systems Management

The course offers the fundamental knowledge and tools needed to manage information and information resources effectively within a wide variety of healthcare organizations. (Online 3) Prerequisites: Open to graduate students only.

MHM 506 Healthcare Operations & Process Improvement

The course is devoted to the factors that impact the design, improvement and management of Healthcare Operations. This course covers knowledge needed for the Lean Six Sigma Yellow Belt certification. (Online 3) Prerequisites: Open to graduate students only.

MHM 509 Law and Ethics for Healthcare Management

The course (1) introduces basic legal principles applicable to the healthcare arena and (2) alerts students to the possible involvement of law in the healthcare professions. (Online 3) Prerequisites: Open to graduate students only.

MHM 510 Strategic Marketing for Healthcare Management

Introduces marketing fundamentals and applications in healthcare organizations; addresses changing environment and consumer behavior decisions related to value creation, strategy, and innovation. (Online 3) Prerequisites: Open to graduate students only.