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.

[Signature]

Hillary Leonard
Chairperson of the Faculty Senate

May 2, 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.