The attached BILL titled, Curricular Report No. 2019-20-6 from the Graduate Council to the Faculty Senate (courses), was adopted by vote of the Faculty Senate on **November 21, 2019**.

The Bill is effective on the date of signature below.

[Bahram Nassersharif]
Chairperson of the Faculty Senate

November 22, 2019
SECTION I
Informational Matters

400-Level Course Changes

COLLEGE OF ARTS AND SCIENCES

Sociology and Anthropology

APG 417 Archaeological Method & Theory
Course description: Theoretical and methodological approaches in archaeology, with an emphasis on skills and knowledge needed by professionals in the field, including ethical responsibilities. Laboratory demonstrations. Prerequisites: APG 202 and junior standing; or permission of instructor. 3 credits.

APG 427 Senior Seminar: Unity of Anthropology
Course Description: Capstone course for anthropology program, with emphasis on all four subfields. Majors will integrate subfields and apply anthropological thinking to contemporary environmental, social, or health issues. Includes career development component. (D1) 4 credits.

Description change and existing course to qualify as General Education

COLLEGE OF ENVIRONMENT AND LIFE SCIENCES

Department of Biological Sciences

BIO 418 Ecology of Marine Plants
Ecology, development, and physiology of marine algae and higher plants. Topics include competition, herbivory, nutrient uptake, photosynthesis, and growth. 4 credits.

Course deletion

500-Level Course Changes

COLLEGE OF ARTS AND SCIENCES

Computer Science and Statistics

CSF 590 Cybersecurity Internship
This course provides each student with a professional experience working on an internship, applying technical and professional cyber security skills.

Prerequisite change
Department of Biological Sciences

**BIO 513 Functional Morphology**
Advanced study of the evolution and biological role of organismal structure including critical evaluation of recent research in functional morphology with an emphasis on vertebrates. 3 credits.
*Course deletion*

**BIO 515 Light Microscopy Research Methods**
Introduction to optical techniques and biological specimen preparation for light microscopy with emphasis on application of these methods in biological research. Topics include optics, embedding and sectioning, fluorescence and immunocytochemistry, and computer image analysis. 4 credits.
*Course deletion*

**BIO 524 Methods In Plant Ecology**
Methods in analysis of vegetation and microenvironments. Emphasis on quantitative techniques in analysis of vegetation, soil, and microclimate; techniques in physiological ecology. 3 credits.
*Course deletion*

**BIO 541 Comparative Physiology of Marine Animals**
Comparison of physiological mechanisms by which animals maintain life with emphasis on marine invertebrates. Responses to external environment mediated by receptors, nervous systems, effectors. Living control systems for muscular activity and circulation. 3 credits.
*Course deletion*

**BIO 553 Regulatory Processes in Eukaryotic Cells**
Regulation of eukaryotic cell biology by processes governing organization and function, including transport, protein sorting, signal transduction, gene expression, and changes in the cytoskeleton. Focus on GTP-binding proteins and protein kinases. 3 credits.
*Course deletion*

**BIO 560 Seminar In Plant Ecology**
Recent topics and investigations pertinent to plant ecology. Library research, oral presentation of reports, and group discussions. 2 credits.
*Course deletion*

**BIO 571 Natural Selection**
Ideas and controversies concerning the action of natural selection. Maintenance of genetic variability, neutral mutation, levels of selection, recombination and sexual reproduction, and rates of evolution. 3 credits. *Course deletion*

Department of Communicative Disorders

**CMD 550 Audiology for Speech-Language Pathologists**
Introduction to audiology for the speech-language pathology graduate student. Hearing disorders, hearing assessment, child and adult aural rehabilitation. 1-3 credits.
*New Title: Audiology for Speech Pathologists. New credits: 2.*
COLLEGE OF NURSING

NUR 566  ACNP Practicum I: Adult  
Application of clinical decision making skills necessary to the management of adults who are acutely or critically ill in hospital emergency, acute and critical care units. 3 credits. 
*Change in credits corresponding to an increase in clinical hours: New credits: 6.*

600-Level Course Changes

COLLEGE OF ENVIRONMENT AND LIFE SCIENCES

Department of Biological Sciences

BIO 663  Phytoplankton Physiology  
Metabolic processes and methods of their investigation in phytoplankton with primary emphasis on functions pertinent to their ecology. Includes adaptation, uptake of nutrients, excretion, rhythms, pigments, and photosynthesis. 3 credits. *Course deletion.*

SECTION II

Curricular Matters Which Require Confirmation by the Faculty Senate

400-Level New Course Proposals

COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES

Department of Biological Sciences

BIO 416  Intertidal Ecology  
The ecology of intertidal shores within New England, with a focus on common marine macroalgae. Includes field surveys, specimen identification, and an emphasis on research planning and hypothesis testing. 4 credits.

500-Level New Course Proposals

COLLEGE OF BUSINESS

MHM 504  Economics of Healthcare Management  
This course examines the production of health, healthcare, and healthcare markets. 3 credits.

MHM 508  Data Analytics for Healthcare Management  
This course will cover how to best analyze, categorize, and manage data that are encountered in healthcare industry; statistical analysis techniques; value-based purchasing analytics and risk adjustment. 3 credits.
PSA 502  Global Supply Chain and Operations Strategy
The purpose of this course is to cover the strategic relationships necessary for supply chain management as well as the tactical activities of logistics, purchasing and operations from a global perspective. 3 credits.

PSA 508  Supply Chain Network Design
The purpose of this course is to aid students in modeling existing supply chains. Using software, students will develop optimal sourcing and distribution networks. 3 credits.

PSA 509  Lean Six Sigma Innovation Protocols
The purpose of this course is an introduction to Lean Six Sigma Operations and a multitude of techniques that are used in the evaluation and analysis of business processes. 3 credits.

COLLEGE OF PHARMACY

Department of Pharmacy Practice

PHP 509  Pharmacotherapy for Pediatric and Geriatric Populations
Course focuses on the pharmacotherapy needs of pediatric and geriatric populations. Emphasis will be placed on identifying special considerations unique to each population when communicating and developing treatment plans. 3 credits.

600-Level New Course Proposals

COLLEGE OF HEALTH SCIENCES

CHS 601  Seminar in Health Sciences
Reports and discussions of current topics in health sciences, as well as oral reports of dissertation research topics in progress. May be repeated for a maximum of 3 credits. 1 credit.

CMD 691  Research in Communicative Disorders
Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study). May be repeated for up to 6 credits. 1-3 credits.

CMD 699  Doctoral Dissertation Research
Number of credits is determined each semester in consultation with the major professor or program committee. (Independent Study). S/U credit. 1-12 credits.

HDF 691  Research in Human Development & Family Studies
Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study). May be repeated for up to 6 credits. 1-3 credits.

HDF 699  Doctoral Dissertation Research
Number of credits is determined each semester in consultation with the major professor or program committee. (Independent Study). S/U credit. 1-12 credits.
KIN 691  Research in Kinesiology
Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study). May be repeated for up to 6 credits. 1-3 credits.

KIN 699  Doctoral Dissertation Research
Number of credits is determined each semester in consultation with the major professor or program committee. (Independent Study). S/U credit. 1-12 credits.

PHT 650  Elective Topics Related To Physical Therapy
Instruction, observation, seminar and/or participation in a variety of topics related to Physical Therapy. 1-2 credits.