

Serial Number #19-20-10A

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

GRADUATE CURRICULAR REPORT #2019-20-6
GRADUATE COUNCIL NOVEMBER 4, 2019
FACULTY SENATE NOVEMBER 21, 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.*

Description and prerequisite change

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

COLLEGE OF ENVIRONMENT AND LIFE SCIENCES

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*

COLLEGE OF HEALTH SCIENCES

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.*