

To: Members of the 2022-2023 Graduate Council

From: Angela Slitt, Chair
Brenton Deboef, Dean
Colleen Mouw, Associate Dean

Date: April 10, 2023

RE: Agenda for Meeting Number 554 of the Graduate Council to be held on Monday, April 10, 2023 at 2:00 p.m. via Zoom

- I. Call to order**
- II. Approval of Minutes - Meeting No. 553, March 6, 2023**
- III. Conferral of May Graduate Degrees (DeBoef)**
- IV. Announcements**
 - A. Professional development update (*Mitnick*)
 - B. Applications & admission update (*Kulesh*)
 - C. MPS and PSM Program update (*Mouw*)
 - D. Summer curriculum approval process (*DeBoef*)
 - E. Recent appointments to the Graduate Faculty (*Mouw*)
 - Matthew J. Cabral, Adjunct, COE
 - Lindsay Green-Gavrielidis, Outside Scholar, CELS
 - Eugene J. D'Angelo, Outside Scholar, CON
 - John L. Renne, Outside Scholar, CELS
 - Tyler Pavlowich, Outside Scholar, CELS
 - Iñaki Pérez-Ibáñez, Tenure-track, CAS
 - Ceren Gunsoy, Tenure-track, CHS
 - Erin McCutcheon, Tenure-track, CAS
 - Marie Mortreux (Brown), Tenure-track, CHS
- V. New Business**
 - A. Revisions to Graduate Manual Appendix K
 - B. Revisions to Graduate Manual section 11.28
 - C. Discussion: Graduate School Strategic Plan (*DeBoef and Mouw*)
- VI. Graduate New Program & Tracks (Kuali Agenda) (DeBoef)**

NOTICE OF CHANGE

Biological and Environmental Sciences PhD - Change in credit requirements

Environmental and Natural Resource Economics PhD - Change in credit requirements and description

Interdisciplinary Neuroscience PhD - Change in credit requirements, description, and admission requirements

Physics MS - Change in program requirements

Oceanography MO - Change in description and course requirements

NEW PROGRAM AND TRACK PROPOSALS

Coastal Resilience Graduate Certificate - The Coastal Resilience Graduate Certificate Program provides students and professionals with advanced training needed to find professional employment in the field of coastal resilience.

Dietetics Future Education Model Graduate Program - This program is a non-thesis Master's Program including a minimum of 1,000 supervised practice hours in healthcare and community facilities integrated with supportive didactic coursework. The program has been approved by the accrediting body for dietetics education, the Accreditation Council for Education in Nutrition and Dietetics (ACEND).

Graduate Certificate in Offshore Wind - This certificate offers a comprehensive curriculum covering topics related to offshore wind farms. Students will learn skills and knowledge needed to succeed in this growing field such as siting (macro- and micro-siting), resource assessment, wave/hydrodynamic loading, analysis and design of turbine substructure /foundation, and floating turbines. Students can also focus on a special topic based on their interests.

Health Outcomes and Data Analytics - This MS program provides comprehensive training in health outcomes and data analytics by equipping students with the skills needed to produce data-driven insights that improve the lives of patients.

Masters of Professional Studies - The program allows flexibility for students to design their own interdisciplinary master's degree program. The Master of Professional Studies requires the completion of two certificate programs offered through URI Online and two additional courses: Integrated and Applied Capstone (MPS 598) and a relevant graduate-level course (at least three credits).

VII. Graduate Curriculum (Kuali Agenda) (Mouw)

400-LEVEL NEW COURSE PROPOSALS

COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES

BIO 465 Coral Reef Ecology

(3 crs.) An introduction to coral reefs, the processes generating their exuberant biodiversity, the effects of human activities on them and the promising ways to restore and preserve these unique ecosystems. (Lec. 3) Pre: BIO 262 or permission of instructor.

500-LEVEL NEW COURSE PROPOSALS

COLLEGE OF ARTS AND SCIENCES

CSF 505 Professional Development in Cybersecurity

(2 crs.) Cybersecurity career preparation. (Seminar) Pre: permission of the instructor. May be repeated for a maximum of 8 credits. S/U credit.

WRT 534 Visualizing Environmental Advocacy

(3 crs.) Examines visual approaches to environmental advocacy; analyzing and writing about visuals in journal articles, scientific research, proposals, popular press; rhetorical analysis of scientific visuals and visualization. Pre: WRT 104 or 106 or equivalent, or permission of instructor; graduate standing or senior status.

COLLEGE OF ENGINEERING

(TABLE) CHE 580 Surface Microanalysis

(3 crs.) Introduction to microscopic and analytical techniques with a focus on surface analysis. Emphasis on practical application of these techniques and hands-on laboratory experience. (Lec. 2, Lab. 1) Pre: CHE 232 or CHE 333 or CHM 401 or PHY 455, or permission of instructor.

ELE 569 Computer Systems for Modern Cloud Computing

(3 crs.) Cross-listed as (ELE 569) ELE 469. Introduction to modern cloud computing with a focus on cloud software systems design principles. Emphasis on improving performance of cloud applications to design and implement key components of cloud systems. (Lec. 3) Pre: ELE 305 or CSC 411 or permission of instructor.

GRADUATE SCHOOL OF OCEANOGRAPHY

OCG 577 Modeling the Marine Carbon Cycles

(3 crs.) Development of idealized mathematical and numerical models of the marine carbon cycles over various spatial and temporal scales. The numerical modeling component, using Python, accommodates beginner programmers. (Lecture) Pre: none

OCG 588 Marine Carbon Dioxide Removal

(3 crs.) CO₂ needs to be removed from the atmosphere to keep the global temperatures at recommended levels. There is an increasing urgency to improve our scientific understanding of ocean CO₂ removal. (Lec. 3) Pre: OCG 521

600-LEVEL NEW COURSE PROPOSALS

COLLEGE OF PHARMACY

PHP 675 Integrated Capstone - Health Outcomes and Data Analytics

(3 crs.) The purpose of the capstone course is to apply theoretical knowledge and data analytical skills to address a Health or Medication Outcomes project by extending and demonstrating data analytic competencies gained in prior coursework. Each week introduces new data analysis steps and visualization tasks, successively building to a finalized project to be presented to classmates. After selecting a data source for the project, students will propose and conduct the study, including defining relevant aims, devising and applying suitable methodologies, developing effective data visualizations to present results, and discussing results and implications. (Lecture) Pre: To be taken after completion of all other required courses for the online MS in Health Outcomes and Data Analytics.

500-LEVEL COURSE CHANGES

COLLEGE OF ARTS AND SCIENCES

LSC 518 Global Information Services

(3 crs.) Study, compare, and analyze information issues, practices, and organizations in a range of countries. Course may require travel to study information services. (Accelerated Online Program)

Change in method of instruction from in-person to online instruction, description, and prerequisite

MUS 598B Chamber Music Ensemble-brass

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598G Chamber Music Ensemble-guitar

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598J Chamber Music Ensemble-jazz

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598K Chamber Music Ensemble-keyboard

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598M Chamber Music Ensemble-Mixed Instrumentation

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598P Chamber Music Ensemble-percussion

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598S Chamber Music Ensemble-strings

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598V Chamber Music Ensemble-vocal

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598W Chamber Music Ensemble-woodwinds

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. May be repeated for credit. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

MUS 598Z Chamber Music Ensemble

(0-1 cr.) Chamber music ensembles are small performance ensembles normally restricted to one performer per part. Chamber music ensembles study and perform repertoire in the following areas, or combinations of areas: keyboard, string, woodwind, brass, percussion, vocal, guitar, jazz, etc. (Studio) Pre: audition and/or permission of chamber music coach.

Change in method of instruction from lecture to studio course

PHY 570 Quantum Mechanics I

(3 crs.) Schrodinger and Heisenberg pictures; Perturbation techniques; Propagators and Feynman path integrals.; Aharonov-Bohm effect; Scattering. (Lec. 3) Pre: PHY451 or graduate standing

Change in description, and prerequisites

COLLEGE OF ENGINEERING**ELE 588 Applied Machine Learning**

(3 crs.) Introducing the foundations and methods of machine learning for rapidly growing applications in engineering. Topics include neural networks, decision tree learning, ensemble learning, support vector machines, reinforcement learning, among others. (Lec. 3) Pre: ELE 509 or permission of instructor.

Change in title, description, and credits

COLLEGE OF HEALTH SCIENCES**NFS 507 Applied Nutrition**

LEC: (2 crs). Online asynchronous content with one synchronous class/week. Twelve modular lessons per semester; community nutrition and foodservice management; medical nutrition therapy. Content supports experiential learning rotations. Must be taken twice. (Lec. 2/Online). Pre: Enrolled in MS Dietetics Future Education Model Program.

Change in title, description, method of instruction, prerequisites, and credits

NFS 571 Applied Medical Nutrition Therapy in Dietetics 1

(1 cr.) Implementation of the nutrition care process in clinical settings for individuals with basic clinical conditions. (Accelerated Online Program) Pre: Enrolled in MS Dietetics Program or permission of instructor.

Change in description

NFS 572 Applied Medical Nutrition Therapy in Dietetics 2

(1 cr.) Implementation of the nutrition care process in clinical settings for individuals with intermediate clinical conditions. (Accelerated Online Program) Pre: Enrolled in MS Dietetics Program or permission of instructor.

Change in description

NFS 573 Applied Medical Nutrition Therapy in Dietetics 3

(1 cr.) Implementation of the nutrition care process in clinical settings for individuals with advanced clinical conditions. (Accelerated Online Program) Pre: Enrolled in MS Dietetics Program or permission of instructor.

Change in description

NFS 580 Experiential Learning in Dietetics 1

PRA (2 crs). Introduction to the FG Program. Initial development of skills in nutrition assessment and education, interprofessional education and nutrition focused physical examination. This course is scheduled during the student's initial semester in the FG program. (Practicum 2) Pre: Enrolled in MS Dietetics Future Education Model Program.

Change in title, description, method of instruction, prerequisites, and credits

NFS 581 Experiential Learning in Dietetics 2

PRA (2 crs.). Supervised learning in healthcare and other institutional settings focusing on medical nutrition therapy and foodservice management. Students are required to take this practicum two times during the student's second and third semester in the FG program. (Practicum 2) Pre: Enrolled in MS Dietetics Future Education Model Program.

Change in title, description, method of instruction, prerequisites, and credits

NFS 582 NFS 582 Experiential Learning in Dietetics 3

PRA (1cr). Supervised learning in healthcare and community settings focusing on medical nutrition therapy and community nutrition. This course is required to be taken two times during the student's second and third semester in the FG program. (Practicum 1) Pre: Enrolled in MS Dietetics Future Education Model Program.

Change in title, description, prerequisites, and credits

NFS 583 Experiential Learning in Dietetics 4

PRA (1cr). In this practicum students develop and present a health fair on the URI campus in coordination with Health Services and complete other nutrition education projects. (Practicum) Pre: Enrolled in MS Dietetics Future Education Model Program.

Change in title, description, prerequisites, and credits

PHT 510 Movement Science for Physical Therapy

(5 crs.) Fundamental concepts and principles of human movement, including biomechanics, arthrokinematics, neuromuscular properties, and motor control theories. (Lec. 5) Pre: DPT student in good standing or early contingent admit DPT, PHT 500 and PHT 501 or permission of the chairperson.

Change in title, description, and prerequisites

VIII. Adjournment