

To: Members of the 2020-2021 Graduate Council

From: Colleen Mouw, Chair
Brenton Deboef, Interim Dean
Alycia Mosley Austin, Interim Associate Dean

Date: November 9, 2020

RE: Agenda for Meeting Number 534 of the Graduate Council to be held on Monday, November 9, 2020 at 2:00 p.m. via Zoom.

I. Call to order

II. Approval of Minutes of Meeting Number 533, October 5, 2020

III. Announcements

- A. Assessment Update (*DeBoef and Christy Ashley*)
- B. Contingency Admissions (*Mosley Austin*)
- C. Professional Development Upcoming Events (*Mitnick*)
- D. Recent appointments to the Graduate Faculty since those listed on October 5, 2020 meeting agenda (*DeBoef*)

Nancy Bartow Rybicki, adjunct appointment, Natural Resources Science, College of the Environment and Life Sciences

Vincent M. Colapietro, adjunct appointment, Department of English, College of Arts and Sciences

M. Conor McManus, adjunct professor, Graduate School of Oceanography

IV. New Business

- A. Transfer Credit Rule (*DeBoef*)

V. New Graduate Programs & Notice of Change (See Google Drive for Course forms) (*Mosley Austin*)

New Graduate Program

GIS Graduate Certificate Program

Notice of Change

Pharmaceutical Sciences Doctoral Program - Comp exams

Health Outcomes Track

Natural Resources and the Environment

VI. Graduate Curriculum (See Google Drive for Course forms) (DeBoef)

400-Level Course Changes

COLLEGE OF ARTS & SCIENCES

GER 408 The German Language Past and Present

Introduction to the history and present state of the German languages. Study of standard and colloquial German, dialects, Swiss and Austrian variations, language of youth and professions. Analysis of various text types. Tendencies in present-day German. (Lec. 3) *Pre: 305 or permission of instructor.*

Allowing graduate credit.

PSC 442 International Political Economy

Examines the impact of political and economic influences on interactions between and within states.

Allowing graduate credit.

500-Level Course Changes

COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES

EVS 509 Web-Based Mapping

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. *3 credits.*

Changing from two to three credits for this accelerated online course. Changing course title and prerequisites.

EVS 511 Web-Based Mapping 2

This course is designed develop expertise using web-based GIS tools to analyze spatial patterns and relationships that are relevant to environmental and natural resource management. *3 credits.*

Course deletion.

EVS 514 Environmental Data Analysis 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. *3 credits. Graduate standing or permission of instructor.*

Changing from two to three credits for this accelerated online course. Changing course title and prerequisites.

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. *3 credits.*

Course deletion.

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. *3 credits. EVS 514 or permission of instructor.*

Changing from two to three credits for this accelerated online course. Changing Prerequisites.

EVS 519 Sustainable Natural Resource Management

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. *3 credits. EVS 509, EVS 514, and EVS 518 or permission of instructor.*

Changing from two to three credits for this accelerated online course. Changing Prerequisites.

MAF 500 Race, Gender, Colonialism and Science

Applies social science tools to the study of the practice of science (including ecology and marine science) as cultural phenomena. *3 credits.*

Changing title.

NRS 582 Innovative Subsurface Remediation Technologies

Innovative remediation technologies for treating contaminated groundwater and sediments: theory, applications, and limitations of selected methods. Discussion of case studies. *4 credits.*

Changing course number from NRS 583 to minimize confusion with cross-listed course.

COLLEGE OF NURSING

NUR 500, 511, 512, 515, 516, 517, 519, 524, 538, 539, 552, 571, 572, 573, 574, 575, 576, 577, 584, 585, 586, 587, 588; THN 506, 524

Course deletions.

COLLEGE OF PHARMACY

BPS 555 Protein Molecular Modeling for Biomedical Sciences

Cutting edge computer software to study the 3D-structure of proteins/RNA/DNA of biomedical interest. Application of course topics will be required via a research project to create new knowledge. *3 credits. Graduate standing.*

Changing instruction method to lecture. Changing description and prerequisites.

GRADUATE SCHOOL OF OCEANOGRAPHY

OCG 501 Physical Oceanography

Basic course covering physical properties of seawater, heat budget, distribution of variables, dynamics, water masses and general circulation, waves and tides. *3 credits. Matriculating URI Online Masters of Oceanography student or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 506 Numerical Models and Data Analysis in Ocean Sciences

An introduction to numerical methods in all disciplines of oceanography and ocean engineering. Topics include model formulation, analysis, and simulation; data analysis and parameter estimation. Computer based problem solving. *3 credits. Matriculating URI Online Masters of Oceanography student, one URI Online Masters of Oceanography core course or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 521 Chemical Oceanography

Processes regulating the composition of seawater and the distribution of chemical species. The interaction of marine chemistry with the ocean floor, atmosphere, and marine organisms. *3 credits. Matriculating URI Online Masters of Oceanography student or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 533 Graduate Writing In Marine And Environment

Graduate writing in marine and environmental sciences; writing and editing journal articles and abstracts; principles and practice in scientific writing. *3 credits. Matriculating URI Online Masters of Oceanography student, one URI Online Masters of Oceanography core course or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 540 Geological Oceanography

Origin and evolution of the ocean basin and its margin: morphology, structure, plate tectonics, volcanism, geochemistry, stratigraphy, sedimentation, and paleoceanography. *4 credits. Matriculating URI Online Masters of Oceanography student or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 555 Modern Oceanographic Imaging and Mapping Technique

Overview of current imaging and mapping techniques used in oceanography and ocean engineering including; photographic and laser imaging, side scan and multibeam sonar; underwater vehicle navigation and map making. *3 credits. Matriculating URI Online Masters of Oceanography student, one URI Online Masters of Oceanography core course or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

OCG 561 Biological Oceanography

Dynamics of marine ecosystems; patterns of production and distribution of plankton, benthos, and nekton in relationship to their environment. *4 credits. Matriculating URI Online Masters of Oceanography student or permission of instructor.*

Changing to accelerated online course. Changing prerequisites.

400-Level New Course Proposals**COLLEGE OF ARTS AND SCIENCES****STA 400 Introduction to the Analysis of Missing Data**

Upper-level undergraduate course in missing data analysis. Covered topics will include missing data methods in experiments, deletion methods, single imputation methods, and multiple imputations. *4 credits.*

500-Level New Course Proposals**COLLEGE OF ARTS AND SCIENCES****HIS 500 Introduction to Historical Study**

This course introduces incoming graduate students to the culture, expectations, and practices of professional historians. It exposes students to the most significant historical theories, approaches, and methodologies in the field. *3 credits.*

PSC 588 The Political Economy of International Migration

Examines politics and policies of international migration in sending/receiving countries, analyses the political, social and economic effects of migration, discusses various human rights aspects of migration. *3 credits.*

STA 500 Analysis of Missing Data

STA 500 is designed as a graduate course in missing data theory. Covered topics include Full Information Maximum Likelihood, Expectation-Maximization algorithm, Multiple Imputation, and nonignorable missing data models. *4 credits.*

COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES**NRS 570 Geospatial Data Acquisition and Management**

Examine the fundamental structure of primary GIS data and integration of non-spatial data sources. Focus is on database creation and data management workflows to prepare data for analysis and visualization. *3 credits.*

NRS 571 Techniques in Geospatial Data Analysis

Identify and apply appropriate geoprocessing tools or workflows for geospatial analysis in both the desktop and cloud GIS environments to support decision making and problem-solving across discipline. *3 credits.*

NRS 572 Adv. Topics in Geospatial Data Visualization

Create visualizations using web maps and application templates available within ArcGIS Online. Apply techniques for effective data presentation while creating storymaps, interactive applications and data dashboards. *3 credits.*

NRS 573 Emerging Technologies in Geospatial Data Collection

Develop advanced level skills in mobile data collection using field operation applications in ArcGIS Online. Explore emerging techniques to integrate data feeds and imagery using GIS technology. *3 credits.*

COLLEGE OF THE ENGINEERING**ELE 520X Cyber Physical System Security**

Fundamental constructions and emerging challenges unique to today's cyber-physical systems. Solutions from the perspectives of systems specification, system modeling, network programming, and formal verification (specific focus on electrical power grids). *3 credits.*

Cross-listed with ELE 420X

600-Level New Course Proposals**GRADUATE SCHOOL OF OCEANOGRAPHY****OCG 601 Ocean Resilience**

Course focuses on complex issues related to changes in the ocean environment. Topics include climate change, sea level rise, fisheries management, marine pollution, natural hazards and emerging ocean energy initiatives. *3 credits.*

VII. Old Business

VIII. Adjournment