

To: Members of the 2021-2022 Graduate Council

From: Fred Vetter, Chair
Brenton Deboef, Dean
Colleen Mouw, Associate Dean

Date: February 14, 2022

RE: Agenda for Meeting Number 544 of the Graduate Council to be held on Monday, February 14, 2022 at 2:00 p.m. via Zoom

I. Call to order

II. Approval of Minutes of Meeting Number 544, November 29, 2021

III. Announcements

- A. Professional Development & GWC Update (*Mitnick*)
- B. Kuali Curriculum Management System (*DeBoef*)
- C. International Applicant Language Requirements (*Kulesh & Mitnick*)
- D. Competitive Graduate Student Fellowships and Teaching Assistantships (*DeBoef*)

IV. New Business

- A. Graduate Program Requirements (*Jenkins*)
- B. Nominations for Graduate Student Academic Appeals Board (*DeBoef*)

V. New Graduate Programs & Notice of Change (See Google Drive for New Program Proposals) (*DeBoef*)

Notice of Change

Digital Media Track in the Accelerated Online MLIS - Add the new courses and remove the COM courses that are not approved by the URI Online Accelerated Program.

Master of Music, Music Performance Specializations - updating curriculum and requiring 500 level courses to fulfill the required 6 credits in Music History and Music Theory

MPA Online - Adding 500-level Directed Study course and also having "Policy and Grant Writing" course count as an elective for "Policy Analysis Certificate" or "Public Management Certificate".

New Program and Tracks Proposals

MS Dietetics - Adding two tracks

Accelerated Online Graduate Certificate Program in GSLIS

Accelerated Online Graduate Certificate Program in Quantum Computing

VI. Graduate Curriculum (See Google Drive for Curriculum Proposals) (*DeBoef*)

400-Level Course Changes

COLLEGE OF ARTS & SCIENCES

SPA 414 Language and cultural identity among Latinx

This course studies Latinx communities in the US from a multidisciplinary perspective including history, linguistics and literature. It examines Latinx struggles integrating into American society without losing their own identity. PRE: Any SPA 300-level course or permission of the instructor.

Graduate credit

SPA 415 Bilingualism in Spanish communities

In this class we study bilingualism in Spanish speaking communities, especially those in the United States. In the course, we consider bilingualism as an individual and a social phenomenon. PRE: Any SPA 300-level course or permission of the instructor.

Graduate credit

SPA 416 Linguistic Discrimination in Spanish

Exploration of the relationship between the Spanish language and power with a special focus on the societal impacts of Spanish as a minority and majority language across the world. PRE: Any SPA 300-level course or permission of the instructor.

Graduate credit

COLLEGE OF BUSINESS

BAI 457 Visualizing Data for Business Intelligence

Concepts, methods and techniques in creating business intelligence through descriptive analytics and data visualization techniques, as defined in business settings, used to develop business insights from real-world data sets. Pre: BAI310 or permission of instructor.

Graduate credit, change in title, and description

500-Level Course Changes

COLLEGE OF ARTS & SCIENCES

ENC 590 Principles of Economics

Survey of micro- and macroeconomic theory. (Lec. 3) . PRE: Graduate standing in accounting, labor and industrial relations, or M.B.A. program.

Create online version of existing course and method of instruction

MTH 542 Global Character of Difference Equations I

LEC: (3 crs.) Global character, periodic behavior, and asymptotic nature of solutions of difference equations and systems of difference equations with applications. Recent topics on rational equations and rational systems in higher dimensions. PRE: Pre: MTH 243 and 244, or permission of instructor.

Change in prerequisite

MTH 543 Global Character of Difference Equations II

LEC: (3 crs.) Global character, periodic behavior, and asymptotic nature of solutions of difference equations and systems of difference equations with applications. Recent topics on rational equations and rational systems in higher dimensions. PRE: Pre: MTH 243 and 244, or permission of instructor.

Change in prerequisite

MTH 545 Ordinary Differential Equations I

LEC: (3 crs.) Existence and uniqueness theorems. Continuous dependence on parameters and initial conditions. Singularities of the first and second kinds, self-adjoint eigenvalue problems on a finite interval. Oscillation and comparison theorems. Introduction to delay and difference equations. Elements of stability theory of Lyapunov's second method. (Lec. 3) PRE: Pre: MTH 243 and 244, or permission of instructor.

Change in prerequisite

PSC 555 Directed Study or Research

(3 crs.) Special work arranged to meet the individual needs of graduate students in political science. (Independent Study) Pre: permission of chairperson or Graduate Program Director

Create online version of existing course and change in prerequisite

PSC 556 Directed Study or Research

(3 crs.) Special work arranged to meet the individual needs of graduate students in political science. (Independent Study) Pre: permission of chairperson or Graduate Program Director.

Create online version of existing course and change in prerequisite

PHY/AMS 571 Mathematical Methods for Quantum Computing

Math methods needed for quantum computing including linear vector spaces, linear operators, Hermitian and unitary operators, eigenvectors and eigenvalues, with an introduction to coding in Python. PRE: Permission of Instructor

PHY 572 Foundations of Quantum Mechanics

introduction to the foundations of quantum mechanics, including distinctions between quantum and classical mechanics, axioms of quantum mechanics, spin 1/2 systems, operators, time evolution, measurement, qubits, entanglement and superposition. PRE: PHY571, Permission of Instructor

PHY 573 Introduction to Quantum Computing

Algorithms: searches, factoring, Fourier transforms. Applications to teleportation and cryptography. Physical applications. PRE: PHY 572, Permission of Instructor

PHY 574 Quantum Technology

EC: (3 credits) Advanced quantum circuit theory. Decoherence and density matrices. Error correction. Dense and superdense coding. Quantum tomography. Hardware. PRE: PHY 573, Permission of Instructor

COLLEGE OF BUSINESS

MBA 502 Organizational Behavior

LEC: (3 crs,) Examination of the theory, research, and practice of organizational behavior in work settings, focusing on individual, interpersonal, group, and organizational factors influence work-relevant attitudes and behaviors. (Lec. 3 /Online)

Create online version of existing course

COLLEGE OF ENVIRONMENTAL AND LIFE SCIENCES

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. PRE: EVS 509 (pre), EVS 514 (pre), EVS 518 (co) and graduate standing or permission of instructor.

Change in prerequisite

COLLEGE OF NURSING

NUR 551 Leadership: Theory to Practice

Explore and analyze leadership theories and their application in strategic health care planning, decision-making, and policy formulation in professional practice environments. PRE: Admission to the Doctor of Nursing Practice Program or permission of instructor

Change in prerequisite, title, and description

COLLEGE OF PHARMACY

PHC 515 Pharmacists' Patient Care Process Laboratory IV

Develop patient care plans by performing objective and subjective patient data collection and assessment for increasingly complex patients. Practice communication strategies including patient counseling and motivational interviewing. Identify and address medication-related problems with patients and/or healthcare providers to optimize health outcomes. (Lab 3) PRE: PHC 515 with a grade of C- or better, or permission of instructor. Concurrent enrollment in PHP 527 and BPS 537 is required.

Change in prerequisite

PHP 555 Advanced Neuropsychiatric Pharmacotherapy

PHP 555 Advanced Neuropsychiatric Pharmacotherapy (3 crs.) Comprehensive and advanced course on the pharmacotherapy of psychiatric and neurological diseases. Use of clinical case studies, evaluation of the primary literature, and other forms of interactive teaching will be emphasized. (Lec) PRE: PHP 428 and BPS 438, second- or third-year Doctor of Pharmacy student in good standing, or permission of the instructor.

Change in prerequisite, title, description, grading, and credits

PHP/STA 575 Causal Inference for Biomedical Research

LEC: (3 crs.) Cross-listed as (PHP), STA 575. Using a potential outcomes framework, this course will present methodologies for drawing causal inference in a variety of settings. Examples will be drawn from epidemiologic and medical studies. PRE: STA 411 or 412 or permission of instructor.

Create online version of existing course and change in method of instruction

500-Level New Course Proposals

COLLEGE OF ARTS & SCIENCES

(TABLED) CHM 540 Energetic Materials

Defines, describes, and covers the basic behavior of energetic materials. Topics discussed include characterization, analysis, safety-testing, and performance of energetic materials. PRE: BS in chemistry or permission from instructor

CSF 540 Introduction to Malware Analysis

Introduces core concepts and terminology associated with the practice of malware analysis. Provides a fundamental understanding of basic and advanced static and dynamic malware analysis. Additional topics will include: data encoding, packers, and other forms of anti-malware analysis techniques. PRE: CSF 432

COLLEGE OF ENVIRONMENTAL AND LIFE SCIENCES

BIO 522 Sensory Ecology

Sensory system structure and function and the opportunities and constraints presented by the sensory environment. Lectures on fundamentals and discussion of case studies and problems in the primary literature. PRE: Graduate standing or permission of instructor

COLLEGE OF ENGINEERING

CVE 574 Water Quality Sampling and Analysis

Laboratory and field work including sampling of surface and groundwater, chemical and biological analyses for water, monitoring, treated effluent quality control, and detection of hazardous contaminants. PRE: Permission of instructor. Not open to students with credit in CVE 474

COLLEGE OF ENVIRONMENTAL AND LIFE SCIENCES

MAF 510X Doing Ethnography

This course introduces practical skills and theoretical underpinnings of ethnography. Students will gain hands-on experience with ethnographic field methods and prepare them to undertake an ethnographic research project independently. PRE: Graduate standing. Seniors may join the course with permission of the instructor.

COLLEGE OF HEALTH SCIENCES

PSY 697 Research Mentoring and Consultation Practicum

Practicum for students providing mentorship of undergraduate students in research experiences and/or consultation services to the URI community in areas of research methodology, course development, and inclusion practices, among others.

COLLEGE OF NURSING

NUR 698 Dissertation Seminar

Dissertation seminar is designed to prepare students to develop, submit and defend a viable dissertation proposal. All PhD students are highly recommended to participate, ideally before undertaking independent dissertation research. PRE: NUR 649, 650, 651, 652 and 655 or other graduate-level statistics / data analysis course. Permission of instructor.

COLLEGE OF PHARMACY

PHP 535 Introduction to Systematic Reviews & Meta-Analysis

Aimed at familiarizing students with basic conceptual and applied understanding of methods used to synthesize evidence, with meta-analysis. (Lec. 3) PRE: Students with knowledge about epidemiological research designs and elementary statistics. PHP 308, PHP 405, PHP 540, graduate student standing or permission of instructor.

VII. Adjournment