

To: Members of the 2021-2022 Graduate Council

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

Date: April 4, 2022

RE: Agenda for Meeting Number 546 of the Graduate Council to be held on Monday, April 4, 2022 at 2:00 p.m. via Zoom

I. Call to order

II. Approval of Minutes of Meeting Number 546, March 14, 2022

III. Conferral of May Degrees (*DeBoef*)

IV. Announcements

- A. Next Academic Year Calendar Planning (*DeBoef*)
- B. Professional Development & GWC Update (*Mitnick*)
- C. Reminder: Graduate Faculty Summit - April 6th (*Mouw*)
- D. Admissions Data (*Kulesh*)
- E. Recent appointments to the Graduate Faculty (*Mouw*)
 - Eric D'Asaro**, Outside Scholar, Graduate School of Oceanography
 - Heather Johnson**, Lecturer/ Teaching Professor, Writing & Rhetoric
 - Manuel Castellote**, Outside Scholar, College of Environmental and Life Sciences
 - Catharina Gillsjö**, Adjunct, Nursing
 - Yang Zhou**, Outside Scholar, College of Pharmacy
 - John A Herbert**, Outside Scholar, College of Health Sciences

V. New Business

- A. Vote for new Graduate Council Chair
- B. Revisions to the Graduate Manual: Program Requirements for Master's with thesis (*DeBoef*)
- C. Graduate Faculty Status University Manual (*DeBoef*)
- D. Gender Neutral - Graduate School Manual (*Mouw*)
- E. Discussion: Requirements for Dissertation Time Limits (*Slitt*)

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

NOTICE OF CHANGE

Online Graduate Certificate in Data Science - Dropping requirement of the capstone course, DSP 557.

Couple and Family Therapy Graduate Program (HDF- MS) - Removing “abnormal psychology” from list of pre-requisite.

Certificate in TMD - Restructuring of pre-requisite courses and deletion of TMD 452.

Textiles, Fashion Merchandising and Design - Rewording program description

MATCP Health and Physical Education Specialization - replace existing one credit courses (EDC 116, 117, 118) with EDC220 & EDC 230 and exclude KIN121 as its content will be addressed by newly approved course EDC 220.

NEW PROGRAM AND TRACK PROPOSALS

Online Master's Degree in Data Science - This program's main objectives are to 1) prepare students for careers in data-driven industries and sciences, 2) provide students who have domain area knowledge with the skill set to solve data-driven problems.

Education, Special Education - Program closure request. The MA in Special Education program is being closed and replaced with the MA in Education with a specialization in special education that was approved by the Faculty Senate in February 2018. The MA in Special Education suspended admissions in 2018 but the program was never officially closed. Simultaneously, an undergraduate track and the new MA track in Special Education were approved. The Special Education MA program no longer admits students.

(WITHDRAWN) FinTech Certificate - The FinTech certificate program includes four FinTech courses in total. It will provide in-depth knowledge and understanding of the theories and evolution of FinTech, data-driven financial modeling, financial data mining and machine learning, financial data analytics, and new innovations in the financial sector, including AI, blockchain, bitcoin, cloud computing, machine learning, IoT, crowd funding, P2P lending, etc. The primary goal of the program is to develop students who have the necessary skills and knowledge to pursue competitive professional and academic careers.

Graduate Certificate in Medication Outcomes - Students completing this certificate program will be able to 1.) Develop and structure a medication outcomes evaluation; 2.) Collect and analyze data using contemporary methods from the fields of pharmacoepidemiology and pharmacoeconomics; and 3.) Translate results of medication outcomes studies to healthcare decision-makers to optimize prescription medication use in the varied work environments.

ABM PharmD (non-thesis) - Incorporates the existing Doctor of Pharmacy degree (Pharm.D.) and the existing Master's degree (M.S. Pharmaceutical Sciences, non-thesis) as described in the current University Catalog. Allowability of double-counting of up to 1/3 of the credits of the Master's degree and the time-limit for completion to 7 years.

ENRE ABM- Addition of BA/BS Economics to existing ABM program in Environmental and Natural Resource Economics. This ABM program will now offer qualified students in the Economics program the opportunity to complete BA/BS in Economics and an MS in ENRE (non-thesis option only) in five years.

VII. Graduate Curriculum (See Google Drive for Curriculum Proposals) (Mouw)

COURSE CHANGES

500-Level Course Changes

COLLEGE OF HEALTH SCIENCES

PHT 501 Applied Anatomy

(2 crs.) Surface anatomy and basic skills for screening and examination of the musculoskeletal, integumentary and sensory systems of the body. Pre: DPT student or early contingent admit DPT or permission of the chairperson.

Change in prerequisite, description, and credits

PHT 518 Communication & Education

LEC: (2 crs.) Topics include teaching and learning strategies for classroom and clinical settings, communication skills, working with interpreters, documentation in the electronic medical record (EMR), and strategies for telehealth. Pre: DPT student in good standing, PHT 508, concurrent enrollment with PHT 537 and PHT 544, or permission of the chairperson.

Change in description and credits

PHT 536 Pathophysiology: Implications for Physical Therapy

EC: (3 crs.) This course provides an overview of pathophysiology across the life span from the biological life processes perspective. Pathophysiology across body systems in relation to physical therapy practice is emphasized. Pre: DPT student in good standing or early contingent admit DPT, PHT 512

Change in description and credits

PHT 576 Broadening: Outreach & Interprofession Experiences

First-year DPT students will participate in service, outreach and interprofessional experiences. Second-year DPT students will take a leadership and develop a final project as they participate in service, outreach, and interprofessional activities. S/U credit Pre: PHT 518 or permission of the chairperson.

Change in title, prerequisite, description, and credits

COLLEGE OF NURSING

Course deletions:

NUR 509: Advanced Assessment for Acute Care NP Practice

NUR 510: Nursing Leadership In The Health Policy Process

NUR 565: Acute Care Nurse Practitioner I: Adult

NUR 566: Acute Care Nurse Practitioner Practicum I: Adult

NUR 567: Acute Care Nurse Practitioner II: Adult

NUR 568: Acute Care Nurse Practitioner Practicum II: Adult

NUR 602: Construction of Nursing Theory I: Inductive Process

NUR 603: Construction of Nursing Theory II: Deductive Process

NUR 611: Theories and Research in the Nursing Domains

NUR 660: Philosophical and Theoretical Bases of Health Research

NUR 671: Role Development In Nursing Research

GRADUATE SCHOOL OF OCEANOGRAPHY

OCG 591 Individual Study

Individual study of assigned topics or special problems involving literature search and/or original investigation under one or more members of the faculty. (Independent Study) (Accelerated Online Program) Pre: Matriculating URI Online Masters of Oceanography student or permission of instructor.

Create online version of existing course

OCG 592 Individual Study

Individual study of assigned topics or special problems involving literature search and/or original investigation under one or more members of the faculty. (Independent Study) (Accelerated Online Program) Pre: Matriculating URI Online Masters of Oceanography student or permission of instructor.

Create online version of existing course

600-Level Course Changes

COLLEGE OF EDUCATION & PROFESSIONAL STUDIES

EDP 601 First Year ProSeminar for Ph.D. in Education

Students are introduced to educational research paradigms and related areas of program faculty expertise. Course focuses on engaging in academic conversations and multiple ways to address research problems in education. (Sem. 2) Pre: Current enrollment in the PhD program in education; or permission of instructor. S/U only.

Change in credits

EDP 622 Societal Perspectives of Education

Application of theory to the intersection of community service, academic instruction, civic responsibility, reflectivity, social justice, and advocacy. (Seminar 3) Pre: Prior or concurrent enrollment in EDP 600, 601, or permission of instructor.

Change in title, description and credits

COLLEGE OF HEALTH SCIENCES

PHT 610 Evidence Based Inquiry

LEC: (1-2cr). Weekly case study presentations are discussed to illustrate basic pathophysiologic phenomena and highlight the relevance to physical therapy practice and therapeutic decision-making. May be repeated for a maximum of 6 credits. Pre: DPT student in good standing or early contingent admit DPT, PHT 512, concurrent enrollment with PHT 570 or permission of the chairperson.

Change in credits

NEW COURSE PROPOSALS

500-Level New Course

COLLEGE OF ARTS AND SCIENCES

AMS 563 Applied Mathematics in Data Science

Introduction to mathematical foundations necessary to effectively study problems in data science and machine learning. Use linear algebra and optimization to pose and solve modern problems leveraging data from diverse applications Pre: DSP 556, Enrollment in the Online Master's in Data Science Program.

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

DSP 562 Data Analytics and Visualization

Basic principles and approaches to data visualization, as well as essential methods for data acquisition, cleaning, and aggregation, using Python programming language and Tableau, a powerful, interactive data visualization application. Pre: DSP 555 and DSP 556, Enrollment in the Online Master's in Data Science Program.

DSP 565 Computational Statistics

Statistical methods using R: Empirical Bayes, James-Stein, regression trees, EM algorithm, Jackknife and bootstrap, cross validation, large-scale hypothesis testing, false discovery rate, sparse modeling, LASSO, random forest, boosting, deep learning Pre: DSP 555 and DSP 562, Enrollment in the Online Master's in Data Science Program.

DSP 566 Advanced Topics in Machine Learning

Students build a thorough understanding of state-of-the-art ML algorithms, including techniques that enable understanding of when and why machine learning works in order to design such algorithms. Pre: DSP 563, Enrollment in the Online Master's in Data Science Program.

DSP 567 Database Concepts, Cloud Computing, and Big Data

Foundational and recent inventions in data management research. Topics include, indexing, query processing, query languages, NoSQL databases, spatial databases, data warehousing, business intelligence, and big data frameworks. Pre: DSP 562, Enrollment in the Online Master's in Data Science Program.

DSP 568 Data Science For Business

Apply Data Science techniques to business functions, including decision-making, finance, accounting, marketing, operations management, information technology, human resources, etc. Includes data visualization and machine learning in a business context. Pre: DSP 562 and DSP 563, Enrollment in the Online Master's in Data Science Program.

DSP 569 Application of Data Science in Biological Science

Use data science techniques in data-enabled research in a topic within the biological and life sciences. Pre: DSP 566 and DSP 567, Enrollment in the Online Master's in Data Science Program.

LSC 524 History of Libraries

This course focuses on the development of libraries from ancient times to the present. Emphasizes the library in relation to social, economic, cultural, and political trends.

COLLEGE OF BUSINESS**TMD 532 Current Issues in Fashion Retailing**

Study of the principles and function of fashion retailing, and current changes and issues in fashion retailing. Pre: Graduate student standing or permission of instructor.

COLLEGE OF ENGINEERING**EGR 425/525 Hacking for Defense**

Hacking for Defense® (H4D) uses methodologies taught in Lean LaunchPad and I-Corps university courses across the country. H4D student teams utilize these methodologies to address critical Department of Defense and Intelligence Community problems that have been submitted by various sponsoring organizations. Pre: junior standing, or permission of instructor.

ELE 420/520**Cyber Physical System Security**

This course focuses on the fundamental constructions and the emerging challenges unique to today's cyber-physical systems. On top of these understanding, we will explore the possible solutions from the perspectives of systems specification, system modeling, network programming, and formal verifications. Pre: ELE 205 or 208 or permission of instructor.

COLLEGE OF THE ENVIRONMENT AND LIFE SCIENCES**MAF 547X****Political Ecology for Environmental & Life Sciences**

This seminar gives graduate students in environmental and life sciences an interdisciplinary foundation in social science dimensions of your discipline(s) and topic(s) through introduction to the field of political ecology. Pre: Graduate standing. Seniors may join the course with permission of the instructor.

COLLEGE OF PHARMACY**PHP 529****Introduction to Medication Outcomes**

This foundational course introduces the student to the facets of medication outcomes evaluation and research, categories of health outcomes (clinical, humanistic, economic) and how they are evaluated. Pre: admission to program requires minimum of BS degree in a relevant discipline

PHP 559**Essential Methods of Pharmacoepidemiology**

This course provides students with the skills necessary to understand and conduct pharmacoepidemiologic analyses to evaluate drug safety, efficacy and effectiveness using contemporary methods. Pre: admission to program requires minimum of BS degree in a relevant discipline

PHP 589**Essential Methods of Pharmacoeconomics**

This course provides students with the skills necessary to understand and conduct pharmacoeconomic analyses to evaluate the impacts of drug therapies in managed care and accountable environments. Pre: admission to program requires minimum of BS degree in a relevant discipline

600-Level New Course**COLLEGE OF PHARMACY****PHP 649****Applications of Medication Outcomes Evaluation**

This terminal course emphasizes the application of methods for medication outcomes evaluation and research. In addition to completing weekly exercises involving database analyses, statistical testing and data visualization, students will complete a project relevant to their interests and/or work role. Pre: admission to program requires minimum of BS degree in a relevant discipline

VIII. Adjournment