6 April 2023

TO: Faculty Senate

FROM: Amy Lubitow, Chair, Graduate Council

RE: May 2023 Consent Agenda

The following proposals have been approved by the Graduate Council and are recommended for approval by the Faculty Senate.

You may read the full text for any course or program proposal, as well as Budget Committee comments on new and change-to-existing program proposals, at the Online Curriculum Management System (OCMS) Curriculum Dashboard.

Maseeh College of Engineering and Computer Science

Changes to Existing Course

E.1.a.1

- ECE 598 Introduction to Quantum Mechanics, 4 credits – change description

College of Liberal Arts and Sciences

Changes to Existing Courses

E.1.a.2

- *Ph 511 Introduction to Quantum Mechanics, 4 credits – change description

E.1.a.3

- *Soc 518 Criminology and Delinquency, 4 credits – change description

School of Public Health

New Courses

E.1.a.4

- BSTA 526 R programming for Health Data Science, 3 credits
  This course aims to develop programming skills in R, a powerful statistical programming language. This course assumes some prior familiarity with R and ranges from advanced beginner topics to intermediate topics. It will cover practical data science skills in R that are useful for a career in statistics, epidemiology, or data science, including loading data, data wrangling, visualization, automation, machine learning, and running statistical models. A laptop is required for class to participate in coding exercises. Prerequisite: BSTA 511 or instructor approval.

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.

E.1.a.5

- CPH 527 Applied Epidemiology, 3 credits
  This course will utilize epidemiologic methods and frameworks to explore patterns of disease, disability and other public health issues with an emphasis on epidemiologic findings and surveillance as a tool for resource allocation, policy development, and health reform. Students will examine public health systems and practice the application of epidemiologic tools to better understand prevention and control of communicable diseases in diverse populations.

E.1.a.6

- CPH 627 Applied Epidemiology, 3 credits
  This course will utilize epidemiologic methods and frameworks to explore patterns of disease, disability and other public health issues with an emphasis on epidemiologic findings and surveillance as a tool for resource allocation, policy development, and health reform. Students will examine public health systems and practice the application of epidemiologic tools to better understand prevention and control of communicable diseases in diverse populations.

E.1.a.7

- Epi 656 HIV/AIDS Epidemiology, 3 credits
  The course will start with a review of the known characteristics and pathology of the human immunodeficiency virus infection and the pathogenesis of the clinical acquired immunodeficiency syndrome. Biological and behavioral factors that determine the risks of transmission of the HIV infection will be emphasized and public health prevention strategies will be evaluated. The global HIV epidemic will be considered along with the impact of HIV infection on vulnerable populations, especially women and children. Ethical factors and the impact of stigma will be discussed. Prerequisite: Epi 612 or equivalent.

Changes to Existing Courses

E.1.a.8

- CPH 531 Social Context of Public Health Policy, 3 credits – change title to Social Justice and Public Health and change description

E.1.a.9

- CPH 631 Social Context of Public Health Policy, 3 credits – change title to Social Justice and Public Health and change description

E.1.a.10

- Epi 556 HIV/AIDS Epidemiology, 3 credits – add cross-listing with Epi 656

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.