

PERSONALIZED & GENOMIC MEDICINE (PMED)

PMED 6010 - Foundations in Personalized Health (3 Credits)

PMED6010 introduces students to the field of personalized medicine and prepares students to integrate this field into a variety of health-related professions. Students will gain the foundational knowledge to successfully apply personalized medicine approaches to scientific research and clinical care.

Grading Basis: Letter Grade

A-GRAD Restricted to graduate students only.

Typically Offered: Fall.

PMED 6110 - Pharmacogenomics (3 Credits)

PMED6110 introduces students to pharmacogenetics, which refers to how genetic factors influence drug metabolism and dosing. Students will gain the foundational knowledge to use pharmacogenetics in scientific research and clinical care. Co-Requisite - PMED 6010.

Grading Basis: Letter Grade

A-GRAD Restricted to graduate students only.

Typically Offered: Fall.

PMED 6210 - Multi-Omic Approaches in Personalized Medicine (3 Credits)

PMED6210 introduces students to cutting-edge concepts, technologies, analytic methods, and databases for a wide-range of 'omics approaches that form the foundation of personalized medicine. Critical evaluation of literature utilizing 'omics methods for personalized medicine will also be emphasized. Requisite: PMED 6010.

Grading Basis: Letter Grade

A-GRAD Restricted to graduate students only.

Typically Offered: Spring.

PMED 6410 - METHODS AND CHALLENGES IN OBSERVATIONAL HEALTH DATA ANALYSIS (3 Credits)

In this hands-on course students will analyze real EHR data to answer COVID-19-related questions. There are no pre-requisites, and students will be introduced to coding and methods (including machine learning) via synchronous lectures, weekly assignments, and a course project.

Grading Basis: Letter Grade

Typically Offered: Spring.

PMED 6910 - Applications and Challenges in Personalized Medicine (3 Credits)

PMED6910 is the capstone experience for students enrolled in the Personalized and Genomic Medicine Graduate Certificate. Students will expand their knowledge of personalized medicine through exposure to real-world applications and in-depth research into the field. Requisite: PMED 6010.

Grading Basis: Letter Grade

A-GRAD Restricted to graduate students only.

Typically Offered: Spring.