

PMED6010: 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. This is an 8-week fully online course.

PMED6110: 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. This is an 8-week fully online course.

PMED6210: 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. This is an 8-week fully online course.

PMED6410: Clinical Research Informatics (3 Credits)

PMED6410 content is under development – course will be available in Spring 2027. This is an 8-week fully online course.

PMED6910: Applications and Challenges in Personalized Medicine (3 Credits)

PMED6910 is the capstone experience for students enrolled in the Personalized and Genomic Medicine Graduate Certificate and Personalized Medicine and Health Informatics Track. Students will expand their knowledge of personalized medicine through exposure to real-world applications and in-depth research into the field. This is an 8-week fully online course.

BSBT6805: Bioinformatics (4 Credits)

This course will simultaneously introduce students to coding principles (using R) applied to common problems in bioinformatics and data analysis. This is a 16-week hybrid course.