PHARMACOLOGY (PHAR)

Explanation of Course Numbers

• Courses in the 1000s are primarily introductory undergraduate courses.
• Those in the 2000s to 4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work.
• Those in the 6000s and 8000s are for master’s, doctoral, and professional-level students.
• The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office.

PHAR 6116. Pharmacogenomics and Personalized Medicine. 3 Credits.
Relationships between human genetic variability and drug responsiveness, susceptibility to disease, and disease severity. Scientific, clinical, legal, and ethical challenges in applying pharmacogenomics to drug discovery and clinical development. Professionals from such disciplines as human genetics, pharmacology, pharmaceutical sciences, genomic medicine, clinical and translational sciences, law, and regulatory affairs provide an integrative view of the application of pharmacogenomics to personalized medicine. Restricted to Graduate students enrolled in the Biomedical Sciences Program or Year 2 of the Anatomical and Translational Sciences Program; Instructor permission required. Prerequisite: PHAR 6205. Recommended background: Students who have not completed PHAR 6205 or its equivalent are required to complete a pharmacology preparatory primer prior to the start of PHAR 6116; Equivalency is determined by the instructor; The primer provides foundational concepts of drug biodisposition, dose response, and pharmacodynamics.

PHAR 6205. Pharmacology. 5 Credits.
Basic principles of pharmacology, including receptor mechanisms, drug distribution and metabolism, and pharmacokinetics. The interactions of drugs and biological systems as a basis for rational disease therapy. Prerequisites: BMSC 8210 and BMSC 8212; or permission of the instructor. Recommended background: Enrollment in an MA or PhD program in medical-related sciences.

PHAR 6206. Advanced Pharmacology. 5 Credits.
The interactions of drugs and specific organ systems. Current research in pharmacology and toxicology. Prerequisite: PHAR 6205. Recommended background: Enrollment in an MA or PhD program in medical-related science program.

PHAR 6207. Basic Principles of Pharmacology. 2 Credits.

PHAR 6208. Pharm in Dis. Pathophysiology. 2 Credits.
The pharmacology of disease management.

PHAR 6501. Readings in Pharmacology. 1-12 Credits.
Readings, discussions, and/or preparation of report. Student can choose to work with one or more faculty members in the department on a topic of mutual interest.

PHAR 6502. Clinical Use of Drugs. 3 Credits.
Discussion of the rational use of drugs in the treatment of disease. Independent reading and study.

PHAR 8214. Physiology and Pharmacology Seminar. 1 Credit.
Current and emerging topics with presentations and discussions facilitated by leading experts from GW and outside institution; student-led journal club and oral presentation opportunities. May be repeated for credit. Prerequisites: BMSC 8210 and BMSC 8212.

PHAR 8998. Advanced Reading and Research. 1-12 Credits.
Restricted to doctoral candidates preparing for the qualifying examination. May be repeated for credit.

PHAR 8999. Dissertation research. 1-12 Credits.
Restricted to doctoral candidates. May be repeated for credit.