Spring 2015 Pharmacology Courses

All courses meet Pharmacology Minor Requirements

PHCL 3100: Pharmacology for Pre-Med and Life Science Students
(2 cr; Prereq-College-level biology, biochemistry or physiology recommended; A-F only)
This introductory course in modern pharmacology is suitable for students interested in clinical medicine, biological science research, pharmaceutical industry and development of modern therapeutic agents -- or those just wanting a taste of how drugs work. The emphasis will be on the big picture of "therapeutic drugs" in general, and to prepare students for future success in modern medicine, research, industry, or matriculation to health science programs.
Course Director: Dr. Li-Na Wei (weixx009@umn.edu)
Associate Course Director: Dr. Hiroshi Hiasa (hiasa001@umn.edu)

PHCL 4001: Mechanisms of Drug Action
(2 cr; Prereq-Upper div; [prev or concurrent] courses in [biology, biochemistry] recommended; A-F or Aud)
How drugs function as applied to the treatment of cancer. Pharmacokinetics, pharmacodynamics and pharmacogenetics are introduced.
Course Co-Director: Dr. Greg Connell (conne018@umn.edu)
Course Co-Director: Dr. Daniel Romero (romero@umn.edu)

PHCL 4003: Anti-infective drugs: Drugs that kill invaders
(2 cr; Prereq-College-level biology; A-F only)
Principles/mechanisms of anti-infective drugs, and treatments of infectious diseases.
Course Co-Director: Dr. Hiroshi Hiasa (hiasa001@umn.edu)
Course Co-Director: Dr. Fang Li (lfang@umn.edu)

PHCL 4100: Laboratory in Molecular Pharmacology
(2 cr; Prereq-[2001 or 4001], 3100, [BioC 3021 or BioC 4331], [BioC 4025, BioC 4125 recommended]; A-F only)
Students will become familiar with the theory and practice of molecular pharmacological techniques used to determine the response of cells to agonists and antagonists that impact signal transduction pathways and/or gene expression.
Course Director: Dr. Daniel Romero (romero@umn.edu)

PHCL5111: Pharmacogenomics
(3 cr; Prereq- Grad student or Instructor consent; A-F only)
Course Director: Dr. Colin Campbell (campb034@umn.edu)

PHCL 4993: Directed Studies
(1 - 3 cr; S-N only)
Individual study ("dry lab" experience) on selected topics in pharmacology/biomedical science with faculty from the Pharmacology Department or other biomedicine disciplines. Readings and use of scientific literature.
Course Director: Dr. Hiroshi Hiasa (hiasa001@umn.edu)

PHCL 4994: Directed Research
(1 - 3 cr; S-N only)
Laboratory research ("wet lab" experience) in the areas of pharmacological/biomedical research.
Course Director: Dr. Hiroshi Hiasa (hiasa001@umn.edu)

Pharmacology Undergraduate Program: http://www.pharmacology.med.umn.edu/undergrad-prog.html