PHARMACOLOGY I

3 credits.
Pharmacological actions of important drugs, including drugs that affect the peripheral nervous system, the central nervous system, and the gastrointestinal tract.
Requisites: DPH-2 or Tox-4 standing; MICROBIO 303, PHYSIOL 335, PHM SCI 432, PATH 404
Repeatable for Credit: No
Last Taught: Fall 2016

PHARMACOLOGY II

3-4 credits.
Pharmacological actions of important drugs, including hematopoietic, thrombolytic, antihyperlipidemic, immunopharmacologic, anticancer, anti-inflammatory, diuretic, antihypertensive, antianginal, and anti-arrhythmic agents, and agents used to treat congestive heart failure.
Requisites: PHM SCI/PHMCOL-M 521
Repeatable for Credit: No
Last Taught: Spring 2017

CELLULAR AND MOLECULAR NEUROSCIENCE

4 credits.
Study of original papers leading to an understanding of the molecular basis of electrical activity in neurons. Topics include voltage-sensitive currents, molecular biology of neuronal receptors, synaptic transmission and sensory transduction. Lectures supplemented with experimental demonstrations and discussion sessions.
Requisites: Zoo 523 or equiv
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2016

SYSTEMS NEUROSCIENCE

4 credits.
Introduction to the anatomy and physiology of the mammalian nervous system. Lectures will cover the neuroanatomy of the major subdivisions of the human brain, the major sensory and motor systems, and higher order functions. Lab/discussion sections will emphasize readings from the primary literature and hands-on dissections.
Requisites: PHYSIOL/NTP/PHMCOL-M 610
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2017
PHMCOL-M/BIOCHEM/ZOOLOGY 630 — CELLULAR SIGNAL TRANSDUCTION MECHANISMS
3 credits.

Lecture-discussion. Comprehensive coverage of human hormones, growth factors and other mediators; emphasis on hormone action and biosynthesis, cell biology of hormone-producing cells. 
Requisites: Intro biochem (BIOCHEM 501 or 507 508) cell biology (Biocore 303 or Zool 570 or Path750) or cons inst
Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req
L&S Credit - Counts as Liberal Arts and Science credit in L&S Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2016

PHMCOL-M 699 — INDEPENDENT STUDY
1-3 credits.

Requisites: Cons inst
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2017

PHMCOL-M 710 — CYTOSOLIC AND NUCLEAR SIGNALING MECHANISMS
2 credits.

Biochemical basis of drug action.
Requisites: PHMCOL-M/BIOCHEM/ZOOLOGY 630 (formerly Zool 630/PHMCOL-M 875), BIOCHEM 601 or equiv, cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2012

PHMCOL-M 711 — BIOCHEMICAL PHARMACOLOGY: NEUROTRANSMITTER RECEPTORS/I ON CHANNELS
2 credits.

A consideration of neurotransmitter receptors and ion channels from a molecular perspective. Emphasis will be on current concepts in the field. Course is directed to graduate students and outstanding senior undergraduates.
Requisites: BIOCHEM 501 or cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2013

PHMCOL-M 717 — PHARMACOLOGY I
4 credits.

Lectures and discussions. For students in medicine.
Requisites: Cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2010

PHMCOL-M 875 — SPECIAL TOPICS IN PHARMACOLOGY
1-3 credits.

Special topics in pharmacology. Topics may vary.
Requisites: Intro crse in biochem, mol biol, and genetics and cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

PHMCOL-M 901 — SEMINAR AND JOURNAL CLUB
1-2 credits.

Students and staff present research reports of current interest.
Requisites: Cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

PHMCOL-M/MEDICINE 914 — THERAPEUTICS I - EMPHASIS ON CHRONIC DISEASES
2 credits.

Students will have a greater knowledge of the use of drugs to treat common illnesses. They will better understand the appropriate selection of drugs and the management of side effects in treating chronic illnesses.
Requisites: 4th yr Med st or cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2013

PHMCOL-M 920 — TREATMENT OF CANCER PAIN-CSC
2-12 credits.

Clinical elective for fourth year medical students.
Requisites: 4th yr Med st
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2015

PHMCOL-M 990 — RESEARCH
1-12 credits.

Research facilities of the department available to qualified students.
Requisites: Cons inst
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Summer 2017