PHARMACOLOGY - MD (PHARM)

PHARM 504: Molecular Pharmacology II
4 Credits
Continuation of PHARM 503.

PHARM 520: Principles of Drug Action
2 Credits
Detailed analysis of basic parameters governing drug actions.

PHARM 551: Anti-infective Therapeutics
1 Credits
This course covers general principles related to pharmacology of major classes of antimicrobial agents. PHARM 551 Anti-infective Therapeutics (1) This course focuses on the pharmacology of anti-microbial drugs. The overall goal of the course is to examine the mechanisms of action of these drugs as well as factors determining susceptibility, resistance, selection, host factors, pharmacokinetics, and adverse reactions.

Prerequisite: BMS 501, BMS 502, BMS 503

PHARM 552: Integrated System Pharmacology
1 Credits
This course covers principles related to pharmacology of major classes of drugs affecting the autonomic nervous, cardiovascular, pulmonary, and renal systems. PHARM 552 Integrated System Pharmacology (1) This course focuses on the pharmacology related to autonomic nervous, cardiovascular, pulmonary, and renal systems. The overall goal of the course is to present the mechanisms underlying the effects of drugs acting on these systems at various levels of biological organization (e.g., cell, tissue, and the whole body).

Prerequisite: BMS 501, BMS 502, BMS 503, PSIO 504

PHARM 553: Gastrointestinal and Immunomodulatory Therapeutics
1 Credits
This course focuses on pharmacology of drugs affecting gastrointestinal disorders, drugs used in therapy of inflammatory diseases, and immunomodulatory drugs for organ transplantation therapy. PHARM 553 Gastrointestinal and Immunomodulatory Therapeutics (1) This course covers the use of pharmaotherapies to treat gastrointestinal disorders, inflammation, and immune response. The emphasis is to examine the mechanisms underlying the effects of these drugs at various levels of biological organization (e.g., cell, tissue, and the whole body).

Prerequisite: BMS 501, BMS 502, BMS 503

PHARM 554: Anticancer Therapeutics
1 Credits
This course introduces students to the concept of the multi-step process involved in carcinogenesis. Discussion of both synthetic drugs and naturally occurring compounds used in cancer prevention and cancer treatment is included. Potential future targets for cancer therapy are presented.

Prerequisite: BMS 501, BMS 502, BMS 503

PHARM 561: Neuropharmacology
2 Credits
This course introduces basic principles of human neuropharmacology, with primary emphasis on drugs active in the central nervous system. PHARM 561 Neuropharmacology (2) This course covers the use of pharmacotherapies to treat a variety of neuropsychiatric disorders and other disorders of central nervous system function. Discussion includes: 1) normal neurophysiology; 2) the neuropathology of common disorders; 3) mechanisms of action of drugs affecting the central nervous system and of drugs used to treat disorders of this system; 4) the experimental bases for our knowledge of the actions of these drugs; 5) animal models useful for drug discovery; and 6) the mechanisms underlying drugs of abuse.

Prerequisite: BMS 501, BMS 502, BMS 503

PHARM 562: Endocrine Pharmacology
2 Credits
This course presents basic principles of human endocrine pharmacology, emphasizing drugs active in the endocrine and reproductive systems. PHARM 562 Endocrine Pharmacology (2) This course covers pharmaotherapies used to treat disorders of the endocrine and neuroendocrine systems and to modulate reproduction. Discussion includes: 1) the physiological basis for normal endocrine homeostasis; 2) the pathology of common disorders; 3) the mechanisms of action of drugs affecting these systems and of drugs used to treat disorders of these systems; 4) the experimental bases of these drugs and therapies; and 5) animal models useful for endocrine drug discovery.

Prerequisite: BMS 501, BMS 502, BMS 503

PHARM 590: Colloquium
1-3 Credits/Maximum of 3
Continuing seminars which consist of a series of individual lectures by faculty, students, or outside speakers.

PHARM 596: Individual Studies
1-9 Credits/Maximum of 9
Creative projects, including nonthesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.

PHARM 597: Special Topics
1-9 Credits/Maximum of 9
Formal courses given on a topical or special interest subject which may be offered infrequently; several different topics may be taught in one year or term.
PHARM 600: Thesis Research
1-15 Credits/Maximum of 999
No description.

PHARM 601: Ph.D. Dissertation Full-Time
0 Credits/Maximum of 999
No description.