

Spring 2006

Pharm 328: Medicinal Chemistry

This 3-credit course is intended to provide an understanding of the principles of Medicinal Chemistry. The course is divided in two parts. Part I will introduce key aspects of Pharmacokinetics and Pharmacodynamics, Drug Discovery, Design and Development, as well as 'Tools of the Trade'. Part II will cover specific drugs or drug families from 'Selected Topics in Medicinal Chemistry'.

Course Director:

Wolfgang Dostmann, Associate Professor of Pharmacology

Course Faculty:

Faculty Members from the Departments of Pharmacology and Medical Laboratory & Radiation Sciences

Prerequisites:

Organic Chemistry and Background in Biology or Permission

Examination Format:

During the first half of the course each student will randomly choose one of the "Most Important Drugs in History". Each student will present a short (20-30 minutes) review of the drug. This should include its discovery, structure, chemical properties, synthesis, biological effects and historical significance. During the second half of the course (Selected Topics in Medicinal Chemistry) students will randomly choose "Medicinal Chemistry Case Studies". This project is worth 20% of the final grade. The majority of questions in the exams will require short essay responses. Both exams are worth 30% of the final grade.



