



Department of

Pharmacology
& Toxicologywww.phmtox.msu.edu

PHM 350

Introductory Human Pharmacology

Course Overview

PHM 350 – Pharmacology as a discipline “stands on the shoulders” of the discipline of physiology and biochemistry. This course is designed to introduce the student to areas of human pharmacology. This course is not intended to cover every topic within pharmacology.

This course is suitable for undergraduate students enrolled in majors within the biomedical science disciplines including physiology, biochemistry, human biology, and also in chemistry; it is also suitable for students who already have an undergraduate degree with a major in these disciplines.

Course objectives are to familiarize the student with critical principles in pharmacology and with a range of drug classes used therapeutically in clinical medicine. The focus is on the mechanism of action of these drugs, their therapeutic benefits, uses, and side effects.

Course Coordinator



Dr. Peter Cobbett

received his BS and PhD degrees from the University of St. Andrews/Scotland. His research interests encompass the examination of properties of, and effects of drugs on isolated muscle from *Schistosoma mansoni*, and effects of nanoparticles on mammalian neurons.

Course Topics

- Pharmacokinetics; pharmacodynamics
- Drugs targeting the autonomic nervous system and skeletal neuromuscular junction
- Drugs used in treatment of psychosis and mania, Parkinson’s Disease, insomnia and epilepsy, and pain
- Drugs used in treatment of inflammation, infection and cancer
- Drugs affecting the cardiovascular system and the kidneys used for treating cardiac pathologies, hypertension, and hypercholesterolemia
- Drugs affecting the endocrine system including contraceptive drugs and drugs for treatment of diabetes and of thyroid dysfunction

Prerequisites (for MSU undergraduates)

PSL 250 or PSL 310, **or**
PSL 431 and PSL 432

Course Information

Course Number:	PHM 350
Sections Available:	001
(730/731/732 online)	730 MSU Students 731 Lifelong In-state 732 Lifelong Out-State
Semesters:	Fall, Spring Summer (online)
Credits:	3 credits