



**AMERICAN UNIVERSITY OF ANTIGUA  
COLLEGE OF MEDICINE**

**DEPARTMENT OF PHARMACOLOGY  
SPRING SEMESTER  
JANUARY – APRIL 2009**

- Course Number and Title:** 6701 Medical Pharmacology
- Number of Credits  
and Clock Hours:** 6 Credit Hours (6 clock hours/week)
- Placement in Curriculum:** Basic Sciences. Second Academic Period. Semester IV
- Faculty Responsible:** *H. A. Morcos, MD, PhD*  
Chair of Pharmacology  
  
*Pinakini Shanker, MD, MBBS*  
Associate Professor
- Prerequisites:** Physiology – Biochemistry - Microbiology
- Co-requisites:** Pathology
- Course Description:** The Medical Pharmacology course is designed to prepare the students for the clinical study of therapeutics by providing the mechanisms by which drugs modify biological function. The course includes a systematic study of the pharmacodynamics and pharmacokinetics of drugs as well as a thorough explanation of drugs effects, side effects, drugs interactions and drugs toxicity.

**Course Objectives:**

1. Apply the pharmacodynamics and pharmacokinetics of drugs including absorption, distribution, metabolism and elimination into various clinical cases.
2. Integrate the clinical process of drug action, side effects, drug interactions and drug toxicity into clinical settings.
3. Recognize the different treatment strategies and drug of choice for all major diseases
4. Incorporate the latest knowledge in drug research and drug development into the new approaches in treating various clinical conditions.

**Teaching Methods:**

Lectures and Small Group Discussion

**Evaluation:**

Method:		Weight:
Course Examination:	Mini Exams	70%
	Quizzes	10%
Shelf Examination:		20%

**Required Text(s):**

Basic and Clinical Pharmacology by Bertram Katzung.  
Ninth Edition. McGrawHill.

**Recommended Text(s):**

The Pharmacological Basis of Therapeutics by Goodman  
and Gilman. Eleventh Edition. McGrawHill

## SCHEDULE

<b>Date</b>	<b>Topics</b>	<b>INSTRUCTOR</b>
<b>JANUARY</b> WEEK 1	Basic Pharmacology	Dr. Morcos
WEEK 2	Autonomic Nervous System Pharmacology	Dr. Pinakini
WEEK 3	Cardiac and Renal Pharmacology I	Dr. Morcos
WEEK 4	Cardiac and Renal Pharmacology II	Dr. Morcos
<b>FEBRUARY</b>	<b>Exam 1</b> Monday February 2, 2009	
WEEK 1	Central Nervous System I	Dr. Pinakini
WEEK 2 & 3	Central Nervous System II	Dr. Pinakini
WEEK 3	Drugs Affecting the Blood	Dr. Morcos
WEEK 3 & 4	Drugs used in Endocrinology	Dr. Pinakini
WEEK 4	Drugs Used in GI	Dr. Morcos
<b>MARCH</b>	<b>Exam 2</b> Monday March 9, 2009	
WEEK 1	Antibiotics and Anti-infective agents	Dr. Morcos
WEEK 2	Anti-inflammatory Agents	Dr. Morcos
WEEK 3	Anti-Neoplastic Agents	Dr. Pinakini
WEEK 3 & 4	Drugs Used in Immunology & Toxicology	Dr. Morcos
WEEK 4	OTC & Pharmacogenomics	Dr. Morcos
<b>APRIL</b>	<b>Exam 3 &amp; 4</b>	
	<b>Shelf Exam</b>	
	<b>Comprehensive Exam</b>	