



The Florida State University  
College of Medicine

# Medical Pharmacology 202

**BMS 6402**

**Spring 2011**

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# Instructors

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## ***Course Director***

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## ***Faculty***

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## ***Faculty and Course Evaluation:***

Students will have the opportunity to evaluate each faculty member who teaches a major portion of the course, using a standard evaluation questionnaire. Students will also have the opportunity to evaluate the course at its conclusion. Suggestions and comments concerning the course, its material and conduct, are welcomed and may be made to the Course Director at any time.

# Course Overview

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## Course Goals

Building upon the principles learned in Medical Pharmacology 201, students study in detail the pharmacologic agents used in treating disorders of organ systems. Drug classes, interactions, and specific usages with functional and clinical applications are presented with relevant clinical examples, including the use of therapeutic drug monitoring. Groups of drugs specifically considered include renal, gastrointestinal, hormonal, hematologic, analgesic, local anesthetic, central nervous system, ophthalmic, and dermatologic agents.

## Learning Objectives

### Course Objectives:

The student should exhibit the following knowledge, skills, and behaviors:

#### **Knowledge**

1. Demonstrate knowledge concerning each major drug class discussed in the course, including:
  - a. Mechanism(s) of action,
  - b. Therapeutic uses
  - c. Major adverse effects
  - d. Important drug interactions
  - e. Prototype drug(s),
2. Demonstrate knowledge of the variations in drug response between individual patients, based upon age, disease, genetic traits, or other innate characteristics
3. Demonstrate knowledge of the effect of age on pharmacokinetics, and responses to therapy, with emphasis on geriatric patients
4. Develop an adequate basis of knowledge in pharmacology on which to build as the student advances through the clinical clerkship rotations
5. Develop knowledge of drug classes and mechanisms into which additional drugs can be incorporated, compared, and contrasted as new drugs become available and as the practice of medicine dictates.

#### **Skills**

1. Demonstrate an understanding of the general types and clinical usage of drugs for treating diseases of each organ system

2. Demonstrate the ability to recognize and understand the physicochemical and physiological factors that affect the absorption, distribution, metabolism, and elimination of drugs
3. Demonstrate an understanding of drug-receptor interactions and allied molecular phenomena at a basic level
4. Demonstrate an ability to interpret and analyze literature related to drugs

***Attitudes and behaviors:***

1. Demonstrate professional behavior during activities in the course by being in attendance when required, on time, attentive, and a considerate and active participant in discussions.

**Relationship of course objectives to the “Six Principles” of the Curriculum:**

1. The course is student-centered in providing a supportive, respectful environment in which to learn, while requiring that students be active and critical learners.
2. The course provides information that can be applied within a clinical context. Case-based learning and clinical situations are used to present and to reinforce knowledge and analysis.
3. The course is integrated with other courses in the year. Cases and examination questions integrate information from other disciplines, from the prerequisite biomedical sciences, and from clinical situations.
4. The course reinforces professional behavior in the classroom. Ethical issues in relation to drug therapy or other drug usage are discussed. Application of biomedical science to patient care, in the form of pharmacotherapy, is a major emphasis of the course. Problem solving and critical thinking are promoted by classroom discussions, case discussions, and examination questions. Lifelong learning skills and management of information are promoted by the requirement for using online and library sources and by the application of information to novel situations.
5. Scholarship is encouraged primarily through an emphasis on the necessity of evidence-based utilization of drug therapy, e.g. evaluation of drug safety and efficacy, appropriateness of off-label usage of drugs, and post-marketing surveillance of drug effects.
6. Information is included in the course which deals with drug effects in specific populations such as women, geriatric patients, pediatric patients, and patients belonging to specific ethnic groups.

***Course Format***

The course consists of 44 lecture hours, 5 hours of clinical discussion-tutorial sessions, 2 two-hour small groups (one in combination with Pathology) and participation in 10 hours of integrated small groups or clinical case presentations. The examinations for the course are incorporated into the 4 integrated examinations and the final comprehensive

examination. In addition, 9 announced quizzes are graded and self-directed exercises may be introduced and graded.

## Competencies

FSUCOM – Competencies -Course Title BMS 6402		
Competency Domains	Competencies Covered in the Course	Methods of Assessment
Patient Care	X	Internal exams and quizzes.
Medical Knowledge	X	Internal exams and quizzes and NBME subject exam.
Practice-based Learning	X	SP small groups, Small and Large Group Case Studies.
Communication Skills	X	Evaluation in small group by SPs, facilitators.
Professionalism	X	Course Director observation. Faculty and SP observation during small groups.
System-based Practice		
NOTES:		

## Policies

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### ***Americans with Disabilities Act***

Candidates for the M.D. degree must be able to fully and promptly perform the essential functions in each of the following categories: Observation, Communication, Motor, Intellectual, and Behavioral/Social. However, it is recognized that degrees of ability vary widely between individuals. Individuals are encouraged to discuss their disabilities with the College of Medicine's [Director of Student Counseling Services](#) and the FSU Student Disability Resource Center to determine whether they might be eligible to receive accommodations needed in order to train and function effectively as a physician. The Florida State University College of Medicine is committed to enabling its

students by any reasonable means or accommodations to complete the course of study leading to the medical degree.

[The Office of Student Counseling Services](#)

Medical Science Research Building  
G146

Phone: (850) 645-8256 Fax: (850) 645-9452

This syllabus and other class materials are available in alternative format upon request. For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center

97 Woodward Avenue, South

Florida State University

Tallahassee, FL 32306-4167

Voice: (850) 644-9566

TDD: (850) 644-8504

[sdrc@admin.fsu.edu](mailto:sdrc@admin.fsu.edu)

<http://www.fsu.edu/~staffair/dean/StudentDisability>

## ***Academic Honor Code***

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. (Florida State University Academic Honor Policy, found at <http://www.fsu.edu/~dof/honorpolicy.htm>.)

## ***Attendance Policy***

The College of Medicine has detailed attendance policies as they relate to each cohort and events that conflict with course schedules. See pages 27-29 of [FSUCOM Student Handbook](#) for details of attendance policy, notice of absences and remediation.

**For BMS 6402: Unexcused absence from a scheduled examination or quiz may result in a grade of zero (0 %) being assigned for that examination or quiz. Unexcused absence from an activity for which attendance is required (for example, small group session) will result in a one-point deduction in the final numerical grade for the course.**

## Required Materials

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### **Required textbook**

Basic and Clinical Pharmacology, 11th Ed. (2009), B.G.Katzung, ed. (Available online at COM Medical Library webpage under “E-Books”, then scroll down to “Pharmacology” listing)

### **Required Website**

The Medical Letter on Drugs and Therapeutics (**required**, subject to examination) (on Medical Library webpage under “Drug Information”)

## Suggested Materials

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### **Recommended textbook:**

Goodman and Gilman’s The Pharmacological Basis of Therapeutics, 11<sup>th</sup> ed.

L.L. Brunton et al., eds., 2005. (Available online at COM Medical Library webpage under “E-Books”, in the “Pharmacology” listing)

### **Recommended review books:**

Katzung & Trevor’s Pharmacology Examination and Board Review, 8<sup>th</sup> ed., A.J. Trevor et al. eds., 2008. (An extensive review)

USMLE Road Map: Pharmacology, 2<sup>nd</sup> ed. (2006), B.G. Katzung and A.J. Trevor, eds. (An abbreviated review)

### **Recommended Websites:**

Therapeutic Guidelines (on Medical Library webpage under “Drug Information”)

e-Facts (available on COM Medical Library website under “Drug Information”)

e-Pocrates (available on COM Medical Library website and on Axim handheld devices)



# Grading

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## ***Assignments and weights***

Questions pertaining to Pharmacology 6402 (~34 - 50 per examination) will be included in four integrated examinations and in the final comprehensive examination for the second year. Nine (9) announced quizzes (~3-8 questions each) will also be given in the course. Each student will also participate in self-directed exercises. The types of questions may include computer-graded formats (multiple choice, matching) and open-ended, short answer questions.

Unexcused absence from a scheduled examination or quiz may result in a grade of zero (0 %) being assigned for that examination or quiz. Unexcused absence from an activity for which attendance is required (for example, Small Group session) will result in a one-point deduction in the final numerical grade for the course.

## ***Grading Scale***

The grade which the student will earn is based upon the percentage of all of the questions answered correctly, according to the following scale:

<b>Grade</b>	<b>Percentage</b>
A	> 90.0 % correct
B	87.0 – 89.9 % correct
B+	80.0 – 86.9 % correct
C+	77.0 – 79.9 % correct
C	70.0 – 76.9 % correct
D	65.0 – 69.9 % correct
F	< 64.9 % correct