## Pharmacology 201 Introduction to Pharmacology Fall 2018 Syllabus

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Class Time: Tuesday and Thursday, 4:25-5:40 pm Location: Fleming Museum 101

<u>Description</u>: This course is a Pharmacology survey course that focuses on biochemical and physiological actions of prototype drugs used in the treatment and prevention of human diseases. Prerequisite: Introductory courses in Biology and Organic Chemistry.

<u>Objectives:</u> The course is appropriate for advanced undergraduates who have a strong background in biology and chemistry and have a desire to understand the mechanisms behind current pharmaceuticals. Topics covered include pathologies that require treatment, drug mechanisms and side effects, and drug metabolism by the body. Students with an interest in pursuing health-related fields are particularly encouraged to take the course. This course is a core requirement for students pursuing the <u>Pharmacology Minor</u> or the Pharmacology <u>Accelerated Masters program</u>.

<u>Lectures and Materials</u>: The course is taught by several instructors within the Pharmacology Department who have expertise in the areas of the lectures. Required materials will be posted on blackboard with a recommended review text Katzung's "Basic and Clinical Pharmacology" 13<sup>th</sup> Edition. This text can be accessed at no cost using the <u>Dana Medical Library</u> site license for <u>AccessMedicine</u> and Clinical Pharmacology Online which provides timely and useful information related to topics covered in class. <u>Link</u> for instructions to access from off campus. Powerpoint slides and other materials will be made available to the students using Blackboard.

<u>Grading:</u> Grades will be based on **6 case study assignments** and **3 closed-book exams**. Graduate students will have additional grading for 2 papers. The final will NOT be cumulative. Exams will be multiple choice. Attendance at classes and review sessions is highly recommended but is not mandatory. Your participation in clicker questions will be considered if you are on a grade border.

# Case Study Assignments will be due at 11:59 PM on these dates.

\*Students taking the course for **graduate credit** will be required to focus on primary literature and to present two term papers that integrate class area topics into an in-depth literature review. Students will be able to choose from several area topics presented 4 weeks prior to the due date.

Specifics:

1) Papers should be 5-7 pages in length, double-spaced.

2) Papers must have at least 10 references with 5 or more from primary basic science literature. The remaining can be from textbooks, reviews or websites.

3) Papers will outline the background of the topic and then use specific examples from the literature that helped to develop the current understanding of the topic.

#Case Studies	15 points each
EXAMS	100 points each
*Grad Papers	50 points each

Schedule of Lectures:

Date	Торіс	Instructor
8/28	Introduction/General Principles	Dostmann
8/30	Drug Delivery and Metabolism	Dostmann
9/4	Drug Development	Dostmann
9/6	Autonomic Pharmacology	Morielli
9/11	Autonomic Pharmacology	Morielli
9/13#	Antiinflammatory Drugs (NSAIDSetc.)	Wellman
9/18	Immunosuppressants	Wellman
9/20#	Histamine and Gastrointestinal Drugs	Wellman
9/25	Drugs for Hyperlipidemias	Wellman
9/27	EXAMINATION 1	Lounsbury
10/2	Cardiovascular Drugs	Wellman
10/4	Cardiovascular Drugs	Wellman
10/9#	Drugs for Hypertension	Erdos
10/11	Anticoagulants	Erdos
10/16*	Endocrine Pharmacology	Carr
10/18	Endocrine Pharmacology	Carr
10/23	Endocrine Pharmacology	Carr
10/25#	Clinical Correlations	Carr/Wellman/Erdos
10/30	<b>EXAMINATION 2</b>	Lounsbury
11/1	Antimicrobial Drugs	Howe
11/6	Antimicrobial Drugs	Howe
11/8	Anticancer Drugs	Howe
11/13	NO CLASS DEPARTMENTAL RETREAT	
11/15*	Anticancer Drugs	Howe
11/20	NO CLASS (Thanksgiving)	
11/22	NO CLASS (Thanksgiving)	
11/27#	Anticonvulsants/Antiparkinsons	Lounsbury
11/29	Antidepressants/Antipsychotics	Lounsbury
12/4	Opioids and Drugs of Abuse	Lounsbury
12/6	Clinical Correlations	Lounsbury
12/7#	Last assignment due	
12/13	FINAL EXAMINATION 4:30 pm Flem	ning 101