Faculty of Sciences Biology And Biotechnology Department



الجامعة العربية الأمريكية

كلية العلوم قسم العلوم الحياتية والتقنيات الحيوية

Course Syllabus A. COURSE INFORMATION AND TEACHING STAFF Name FORENSIC PHARMACOLOGY AND TOXICOLOGY Code 100223020 Activity Lecture 1. Course **Credit hours** 3 Semester Fall 2024/2025 **Pre-requisite** No Pre-Requisite Section Building Room Day Office hours Time Instructor 2. Teaching staff, time NT 12:30 - 13:15 Huda Hassan Medhat Masri 10:30-11:20 1 and location PHC 105 Μ huda.masri@aaup.edu M 10:00 - 11:50 11:30-12:20

	B. COURSE POLICIES
Att is i	endance is required; and university regulations in this regard are strictly applied. It nortant to note the following:
	 The student is expected to follow all announcements issued by the university, faculty, department as well as the course instructor through the official channels. It is the student's full responsibility to get aware of these announcements and to react accordingly.
1. Commitment and Attendance	 The student has to communicate electronically with the course instructor, whenever needed, through the official channels exclusively which are limited to the AAUP email and Moodle messages only.
	3. The student is expected to attend all classes* and to arrive at classroom on time.
	 If the instructor is late for class, the student must wait for at least 10 minutes before leaving the classroom.
	 Absence by more than 25% of classes leads to an automatic withdrawal from the course (the grade W is assigned).
Theto	e student must perform all course assessment activities, i.e. assignments, quizzes, exams It is important to note the following:
2. Performance of assessment activities	 Absence from an exam or a quiz other than the final exam leads to a zero mark in that exam or quiz. An exception allowing a makeup is made for a student submitting a legitimate excuse that is accepted by the instructor in a timely manner.
	 Absence from the final exam leads to an FA grade that eventually turns to an F grade. An exception allowing a makeup exam is made if the student submits an official excuse that is accepted by the Academic Affairs in compliance with the university regulations.

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		Course	Syllabus			
	The student is expected to be honest during the performance of assessment activities. While not limited to the list below, the following actions are examples of cheating:					
	1. Copying from other students.					
3. Academic Integrity	2.	Using materials that are not authorized by the proctor during quizzes or exams.				
	3.	Collaborating with other students during quizzes or exams.				
	4.	Stealing or buying the content of exams, quizzes, and assignments.				
	5.	Stealing ideas and wo	ork of others and presenting them as that of the student			
	The univer	sity uses the letter gra	ding system. It is important to note the following:			
4. Grading	1.	The passing grade is D, and the corresponding score (out of 100) is determined at the end of the semester.				
	2.	At the end of the semester, the scale of scores is determined by converting each				
5. Learning and teaching methods	Lectures		Class sessions involve lectures, video shows, case studies, discussions, debates, and power-point presentations on topics and current issues related to the course contents.			
	Readings		This must be a key responsibility to each student. Studen should read the relevant parts of the textbook and other materials before class. They should be prepared to raise questions and to get engaged in arguments on related topics in the class schedule.			
	In class learning activities		Students are encouraged to learn actively individually an cooperatively in groups. Students are expected to engag with the material, participate in the class, and collaborate with each other. Students will be asked to analyze an argument, demonstrate role play, discuss case studies, make presentations, or apply a concept to a real-world situation.			
	Feedback		The instructor provides the students with feedbacks on their performance throughout the course, which can help them to realize their weaknesses and work harder to improve their performance.			
		C. COURSE	DETAILS			
1. Course description & purpose						

		Upon the completion of the course, students will be able to achieve the following learning outcomes:
2. Course learning outcomes (CLOs)	CLO1	Understand the general principles of pharmacology.
	CLO2	Demonstrate knowledge of the basic concepts of pharmacokinetics which include absorption, distribution, metabolism, and excretion of medication.
	CLO3	Employ knowledge of the basic concepts of pharmacodynamics including drug-receptor interactions.
	CLO4	Discuss the fundamental Pharmacology and uses of the major classes of clinically important drugs currently used in medical practice
	22/1/10	

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		Course Sy	/llabus			
2. Course learning outcomes (CLOs)		Upon the completion of the course, students will be able to achieve the following learning outcomes:				
	CLO5	Describe the indications, contraindications, and pharmacological concerns of specific drugs used				
		Assessment tool	Weight %	CLOs	Due week	
3. Assessments		Mid. Term	30%	1,2,3,4		
	Lab.		30%	1,2,3,4,5		
	Final Exam		40%	1,2,3,4,5		
		Total	100%			

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ment	Outcomes	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5
assessi	1 - Mid. Term	\checkmark	\checkmark	\checkmark	\checkmark	
. CLOS	2 - Lab.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
4	3 - Final Exam	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

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Course Syllabus

	Week	Topics	Study material	Assignment	CLOs
	1	Introduction to Pharmacology			1
	2	Pharmacokinetics			1,2
	3	Drug-Receptor Interactions and Pharmacodynamics			1,3
	4	Drugs Affecting the Autonomic Nervous System The Autonomic Nervous System physiology			1,4
	5	Drugs Affecting the Autonomic Nervous System Cholinergic Agonists Cholinergic Antagonists Adrenergic Agonists Adrenergic Antagonists			1,2,3,4
5. Course					
Schedule	6	Cholinergic Agonists Cholinergic Antagonists Adrenergic Agonists Adrenergic Antagonists			1,2,3,4
	7	Drugs Affecting the Central Nervous System Treatment of Neurodegenerative Diseases Anxiolytic and Hypnotic Drugs Central Nervous System Stimulants Anesthetics Antidepressant Drugs Neuroleptic Drugs Drugs Used to Treat Epilepsy			1,2,3,4, 5
	8	Drugs Affecting the Central Nervous System Treatment of Neurodegenerative Diseases Anxiolytic and Hypnotic Drugs Central Nervous System Stimulants Anesthetics Antidepressant Drugs Neuroleptic Drugs Drugs Used to Treat Epilepsy			1,2,3,4, 5

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	Week	Topics	Study material	Assignment	CLOs
5. Course schedule	9	Anti-Inflammatory Drugs and Autocoids Anti-inflammatory Drugs Autacoids & Autacoid Antagonists Opioid Analgesics and Antagonists			1,2,3,4, 5
	10	Anti-Inflammatory Drugs and Autocoids Anti-inflammatory Drugs Autacoids & Autacoid Antagonists Opioid Analgesics and Antagonists			2,3,4,5
	11	Anti-Inflammatory Drugs and Autocoids Anti-inflammatory Drugs Autacoids & Autacoid Antagonists Opioid Analgesics and Antagonists Skeletal muscle relaxants			2,3,4,5
	12	Centrally acting muscle relaxants			4,5
	13	Drug abuse in sports			5
	14	Drug abuse in sports			4,5
	15	Hallucinogens			5
	16	Revision			1,2,3,4, 5

D. COURSE MATERIAL			
1. Textbook	Lippincott's Illustrated Reviews: Pharmacology by Karen Whalen, 6th Edition, Lippincott Williams and Wilkin		
2. Reference material	1. Goodman and Gilman's: The Pharmacological basis of therapeutics, McGraw-Hill. 2. Modern Pharmacology With Clinical Application, by Charles R. Craig and Robert E. Stitzel , Little, Brown and Company		
3. Internet resources			