



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Pharmacy Department**

PHAR242 Pharmacology 1 - JNQF Level: 7
Summer Semester 2023-2024

Course Catalog
3 Credit Hours. Basic principles of pharmacology. Introduction to pharmacokinetic and pharmacodynamic principles. The course covers the pharmacology of drugs acting on the central nervous system (CNS) and the autonomic nervous system (ANS).
<b>Teaching Method:</b> On Campus

Text Book	
<b>Title</b>	Basic and Clinical Pharmacology
<b>Author(s)</b>	Bertram G. Katzung
<b>Edition</b>	15th Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Pharmacology Examination and Board Review	Trevor and Katzung	11th Edition	
Ref #3	Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy	David E. Golan, Armen H. Tashjian Jr, Ehrin J. Armstrong	4th Edition	

Instructor	
Name	Prof. Nour Al-Sawalha
Office Location	-
Office Hours	Sun : 08:15 - 09:45 Mon : 08:15 - 09:45 Tue : 08:15 - 09:45 Wed : 08:15 - 09:45
Email	nasawalha@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun, Mon, Tue, Wed : 10:00 - 11:30 Room: SOUTH HALL

Prerequisites		
Line Number	Course Name	Prerequisite Type
301220	PHAR122 Introduction To Pharmacy	Prerequisite / Study
103720	MED372 Pathophysiology	Prerequisite / Study

Tentative List of Topics Covered
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Weeks	Topic	References
Weeks 1, 2	Introduction: The Nature of Drugs & Drug Development & Regulation	From Ref #1
Weeks 3, 4	Drug receptors & pharmacodynamics	Chapter 2 From Ref #1
Week 5	Introduction to autonomic pharmacology	Chapter 6 From Ref #2
Week 5	Cholinoceptor-Activating & Cholinesterase-Inhibiting Drugs	Chapter 7 From Ref #1
Week 6	Cholinoceptor-Blocking Drugs	Chapter 8 From Ref #1
Week 7	Adrenoceptor Agonists & Sympathomimetic Drugs	Chapter 9 From Ref #1
Week 8	Adrenoceptor Antagonist Drugs	Chapter 10 From Ref #1
Week 9	Sedative-hypnotic drugs	Chapter 22 From Ref #1
Weeks 10, 11	Antiseizure drugs	Chapter 24 From Ref #1
Week 12	Pharmacologic Management of Parkinsonism & Other Movement	Chapter 28 From Ref #1
Week 13	Antipsychotic Agents & Lithium	Chapter 29 From Ref #1
Week 14	Antidepressant agents	Chapter 30 From Ref #1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the basic scientific concepts and principles that serve as the foundation of the pharmacological sciences including pharmacokinetics, pharmacodynamics, and drug metabolism. [1PLO1.1] [1L7K1]	30%	
Describe the molecular pharmacology and the mechanism of action of the autonomic nervous system drugs and centrally acting drugs. [1PLO1.1] [1L7K1]	50%	
Describe the adverse effects and indications of the autonomic nervous system drugs and centrally acting drugs [1PLO1.1] [1L7K1]	10%	
Describe the pharmacokinetic properties of the autonomic nervous system drugs and centrally acting drugs. [1PLO1.1] [1L7K1]	10%	

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
100															

Relationship to NQF Outcomes (Out of 100%)	
	L7K1
	100

Evaluation	
Assessment Tool	Weight
First Exam	25%
Second Exam	30%
Final Exam	40%
Interactive Learning	5%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the dean or the chair of the department. The format for the exams is generally (but NOT always) in the form of multiple-choice questions. Grades will not be given out via e-mail
Cheating	Prohibited. In case of cheating the student will be subject to punishment according to the standard regulations and protocols of JUST.
Attendance	1. Excellent attendance is expected. 2. JUST policy requires the faculty member to assign a ZERO grade (35%) if a student misses 20% of the classes. 3. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Withdraw	Withdrawal from the course must meet the university deadline as stated in the current student academic calendar.

Participation	Excellent participation in class is expected. Students are also encouraged to ask questions after or at the office during office hours.
Calculator	You will need to have and practice using a scientific calculator. It is imperative that the calculator is not programmable. The calculator will be inspected during the mid-term and the final exams to make sure it complies with the course policies.
Communication with instructors	<ol style="list-style-type: none"> <li>1. Students should communicate through their official JUST emails. Communication through personal email accounts (Yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided.</li> <li>2. Students are required to check their JUST email accounts and the E-learning page of the course regularly for announcements and notifications.</li> </ol>
Classroom Etiquette	<ol style="list-style-type: none"> <li>1. Make sure you arrive at class on time</li> <li>2. Respect people, places, and things</li> <li>3. Raise your hand to speak</li> <li>4. Listen respectfully</li> <li>5. Food and drink are not permitted in class</li> <li>6. Do not engage in aside conversations</li> <li>7. Cell phones and electronic devices are not allowed during class time</li> <li>8. Texting is not permitted in class</li> <li>9. The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission.</li> <li>10. Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call.</li> </ol>
Email Etiquette	<ol style="list-style-type: none"> <li>1. Type your email into the body of the email NOT in the subject line.</li> <li>2. Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line.</li> <li>3. Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or sincerely).</li> <li>4. Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries.</li> <li>5. Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged.</li> <li>6. It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient.</li> <li>7. Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled.</li> <li>8. If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting.</li> <li>9. You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF.</li> <li>10. Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that if no response is received, you can follow up.</li> </ol>

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