



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR341 Pharmacology (1)
First Semester 2021-2022

Course Catalog
3 Credit Hours. Basic principles of pharmacology. Introduction to drugs? pharmacokinetic and pharmacodynamic principles, pharmacology of drugs acting on the central nervous system (CNS), the autonomic nervous system (ANS), opioids, local anesthetics, and non-steroidal anti-inflammatory drugs.

Text Book	
Title	Basic and Clinical Pharmacology
Author(s)	Bertram G. Katzung
Edition	14th Edition
Short Name	Ref no. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref no. 2	Pharmacology Examination and Board Review	Trevor and Katzung	11th Edition	

Instructor	
Name	Dr. Khawla Nuseir
Office Location	P2 L -2
Office Hours	Mon : 11:30 - 12:30 Mon : 13:30 - 14:30 Tue : 11:00 - 12:00 Wed : 09:00 - 10:00 Wed : 12:30 - 13:30 Thu : 12:00 - 13:00
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Instructor	
Name	Dr. AHMAD AL-AZAYZIH
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Instructor	
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Name	Dr. NEHAD AYOUB
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Office Hours	Sun : 09:30 - 10:30 Sun : 10:30 - 11:30 Mon : 09:00 - 10:00 Tue : 09:30 - 10:30 Tue : 10:30 - 11:30 Wed : 09:00 - 10:00
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Instructor	
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Name	Dr. Nour Al-Sawalha
Office Location	-
Office Hours	Sun : 10:00 - 12:00 Mon : 10:00 - 11:00 Tue : 10:00 - 13:00 Wed : 10:00 - 12:00
Email	nasawalha@just.edu.jo

Class Schedule & Room	
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Section 1:

Lecture Time: Sun : 11:30 - 13:00

Room: P1101

Section 2:

Lecture Time: Sun : 14:30 - 16:00

Room: SOUTH HALL

Section 3:

Lecture Time: Mon : 08:30 - 10:00

Room: P1103

Section 4:

Lecture Time: Mon : 11:30 - 13:00

Room: P1102

Section 6:

Lecture Time: Tue : 11:30 - 13:00

Room: P1101

Section 7:

Lecture Time: Tue : 14:30 - 16:00

Room: SOUTH HALL

Section 8:

Lecture Time: Wed : 08:30 - 10:00

Room: P1103

Section 9:

Lecture Time: Wed : 11:30 - 13:00

Room: P1102

Section 11:

Lecture Time: Mon, Wed : 14:30 - 16:00

Room: P1101

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction	From Ref no. 2
Week 2	Pharmacokinetics and Drug Metabolism	Chapter 3 and 4 From Ref no. 2
Weeks 3, 4	Drug receptors & pharmacodynamics	Chapter 2 From Ref no. 1
Week 4	Introduction to autonomic pharmacology	Chapter 6 From Ref no. 1
Week 5	Cholinergic agonists	Chapter 7 From Ref no. 1
Week 6	Cholinergic antagonists	Chapter 8 From Ref no. 1
Week 7	Adrenergic agonists	Chapter 9 From Ref no. 1
Week 8	Adrenergic antagonists	Chapter 10 From Ref no. 1
Week 9	Introduction to the pharmacology of CNS drugs	Chapter 21 From Ref no. 1
Week 9	Sedative-hypnotic drugs	Chapter 22 From Ref no. 1

Week 10	Antiseizure drugs	Chapter 24 From Ref no. 1
Week 11	Antiparkinson drugs	Chapter 28 From Ref no. 1
Week 11	Antipsychotic drugs	Chapter 29 From Ref no. 1
Week 12	Antidepressant drugs	From Ref no. 2
Week 13	Opioid analgesics and antagonists	Chapter 31 From Ref no. 2
Week 14	Local anesthetic agents	Chapter 26 From Ref no. 2
Week 14	Nonsteroidal anti-inflammatory drugs (NSAIDs)	Chapter 36 From Ref no. 2

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe pharmacological principles related to drug actions. [1SO1.1]	15%	
Understand basic terminology for basic principles of pharmacodynamics and pharmacokinetic. [1SO1.1]	15%	
Describe the basic anatomy and physiology of the autonomic nervous system and the CNS. [1SO1.1]	20%	
Identify drug families and describe molecular mechanism of action and the specific characteristics for drug groups in this course. [1SO1.1]	20%	
Describe drug-related adverse events and potential drug-drug interactions for drug groups in this course. [1SO2.1]	15%	
Identify therapeutic indications for drug groups in this course. [1SO2.2, 1SO2.3]	15%	

Relationship to Program Student Outcomes (Out of 100%)														
SO1.1	SO2.1	SO3.2	SO3.3	SO2.2	SO2.3	SO2.4	SO3.1	SO3.4	SO3.5	SO3.6	SO4.1	SO4.2	SO4.3	SO4.4
70	15			7.50	7.50									

Evaluation	
Assessment Tool	Weight
Participation	10%
Midterm	40%
Final	50%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from Pharmacy deanship for students to be able to re-take the exam and would not be given unless there is a valid excuse. The format for the exams is generally (but NOT always) multiple-choice and essay questions. Grades will not be given out via e-mail. In case two exams are scheduled in the same time and date, students should apply for one of the exams one hour ahead. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.
Cheating	Prohibited; and in case of cheating the student will be subject to punishment according to the standard regulations and protocols of JUST.

Attendance	According to JUST policy: students are assigned ZERO grades (35) if they miss 10% of the classes that are not excused and 20% of the classes with acceptable excuses. Lecture attendance is strongly recommended. Students will miss much by relying solely on reprinted handouts or assigned readings to learn the material. The most consistent predictor of student success in this course has always been faithful lecture attendance.
Participation	Excellent participation in class is expected. Students are also encouraged to ask questions after or at the office during office hours.

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