



Syllabus: Pharmacotherapy (1) (#131702464) Second Semester 2025 /2026

COURSE INFORMATION	
Course Name: Pharmacotherapy (1) Learning method: Face-to-face learning Semester: Second Department: Clinical Pharmacy & Pharmacy Practice Faculty: Pharmaceutical Sciences	Course Code: 131702464 Section: 1, 2, 3, & 4 Core Curriculum: 2019 Study Plan JNQF Level: 7
Days & Times: Sec 1 (S&T: 8:30-10:00), Sec 2 (S&T: 11:00-12:30), Sec 3 (M&W: 8:30-10:00), Sec 4 (M&W: 10:00-11:30) Classroom: Sec 1 (Pharm 113), Sec 2 (Pharm 113), Sec 3 (Pharm 113), Sec 4 (Pharm 113) Date prepared: January 2020 Date reviewed &/or updated: February 2026	Credit Hours: 3 (Theory) Prerequisites: 131702463
COURSE DESCRIPTION	
This course teaches pharmacy students how to <i>integrate</i> their background in biomedical and pharmaceutical sciences with pharmacotherapy to make reasonable judgment and <i>decisions</i> about patients' care in a <i>patient-centered</i> and team-based approach. It helps students to develop and refine their skills in critical thinking and problem-solving to identify and manage medication-related problems for safe, appropriate and cost-effective drug therapy regimens that respect the choice of the patient and enhance adherence. These skills promote students' self-confidence and self-learning and allow them to appreciate the vital role of pharmacists as key healthcare providers for optimal outcomes of patients' health in preparation for the students' professional practice. Topics that are covered here include cardiovascular, endocrine, and respiratory disorders, and other miscellaneous topics. These topics will be discussed based on the knowledge of the pathophysiology, diagnosis, clinical manifestations, risk factors, complications, goals of therapy, and treatment guidelines.	
DELIVERY METHODS	
The course will be delivered through a combination of active learning strategies in which	

students will be encouraged to participate and be actively involved in the learning process. These include:

- PowerPoint lectures and active classroom-based discussion

Students will be encouraged to participate and be actively involved in the learning process. Lectures will start with questions to inquire about the students' prior knowledge of the topic. These questions will also be repeated at the end of the lecture to gain insight into the students' competences (to verify whether students have understood the topic). During delivering the lecture presentation, time will be given to allow students to reflect about what they have learnt and think in and discuss some examples of short case studies.

- Relevant films and documentaries
- Video lectures
- Role plays
- E-learning resources: e-reading assignments and practice clinical case studies through Model and Microsoft Team

FACULTY INFORMATION

Name	Dr Enaam M. Al Momany
Academic Title:	Assistant Professor
Office Location:	Third Floor
Telephone Number:	Extension: 3433
Email Address:	enaam@hu.edu.jo
Office Hours:	- Sunday: 11:30-12:30 - Monday: 11:30-12:30 - Wednesday: 11:30-12:30 - <i>Please send an e-mail (enaam@hu.edu.jo) to meet at any other time.</i>

Name	Dr Tahani J. Al Widyan
Academic Title:	Assistant Professor
Office Location:	Third Floor
Telephone Number:	Extension: 3414
Email Address:	alwidyantahani@hu.edu.jo
Office Hours:	- Sunday: 10-11 - Monday: 12:30-1:30 - Tuesday: 10-11 - <i>Please send an e-mail (alwidyantahani@hu.edu.jo) to meet at any other time.</i>

REFERENCES AND LEARNING RESOURCES

Required Textbooks:

1. Stuart T. Haines, Vicki Ellingrod, Thomas D. Nolin. et al. *Pharmacotherapy: A Pathophysiologic*

Approach (McGraw Hill: 13e 2024) ISBN-10: 1265463980

2. Crees, Zachary; Fritz, Cassandra; Huedebert, Alonso; et al. ***The Washington Manual of Medical Therapeutics*** (Wolters Kluwer: 36 e 2019) ISBN-10: 9388696840

Additional Resources Suggested:

3. Marie A. Chisholm-Burns, Terry L. Schwinghammer, Patrick M. Malone et al. ***Pharmacotherapy Principles and Practice*** (McGraw Hill / Medical: 5e 2019) ISBN-10: 1260019446
4. Brian K. Alldredge; Robin L. Corelli; Michael E. Ernst; et al. ***Applied Therapeutics: The Clinical Use of Drugs*** (Wolters Kluwer: 11e 2018) ISBN/ISSN: 9781496318299
5. Roger Walker & Cate Whittlesea Churchill. ***Clinical Pharmacy and Therapeutics*** (Churchill Livingstone: 5 e 2012) ISBN-10: 0702042935

Useful Web Resources:

As per each lecture.

COURSE OBJECTIVES

After the course completion students will be able to:

1. Describe and explain the pathophysiology, etiology, diagnosis, risk factors, clinical presentations and complications of the disease processes occurring in the patient.
2. Recognise drugs of choice, alternative therapies, nonpharmacologic and pharmacologic therapy, usual doses and dosage forms, common and serious side effects, clinically significant drug -drug, -food, -disease or -laboratory test interactions, therapeutic and safety monitoring parameters, therapeutic goals and, integration of multiple disease conditions into therapeutic decisions.
3. Integrate and apply knowledge from the basic and clinical sciences courses in the curriculum into the therapeutic decision-making process.
4. Develop appropriate and cost-effective pharmaceutical care plan for their provision of patient-centred care.
5. Identify, analyse, interpret, integrate and evaluate clinical findings to solve patient therapeutic problems.
6. Integrate artificial intelligence technologies into the course for the design of virtual patient cases, thereby enhancing students' understanding of clinical cases and strengthening their systematic case analysis skills.
7. Self-learn how to identify and manage medication-related problems.

COURSE INTENDED LEARNING OUTCOMES (CILOs)

A. Foundational Knowledge

A.1 Identify epidemiology, pathophysiology, etiology, diagnosis, risk factors, clinical features and complications of specified disease processes and the most recent key guidelines and resources available for management of these conditions and how to use them.

A.2 Recognize the rational choice and use of drugs considering benefits versus risks, the concept of patient-oriented care, and the pharmacist role within a team as one of the healthcare providers for the safe and effective use of medications to achieve optimal outcomes of patients' health.

B. Essentials for Practice and Care

B.1 Solve medication-related problems.

B.2 Analyze information in scientific literature related to disease management to enhance

clinical decision making and impact patient-centered care.

C. Approach to Practice and Care

C.1 Formulate optimal evidence-based care plans and rational recommendations with patient-centered care that respect the choice of the patient and enhance adherence to treatment.

C.2 Implement research findings in the therapeutic decision-making process ensuring a benefit versus risk assessment of medication use in certain situations and groups of patients for safe, appropriate, and cost-effective therapeutic decisions.

C.3 Recognize clinically significant drug interactions along with the expected common & serious adverse drug reactions & the appropriate action to prevent and/or manage them.

C.4 Analyze AI-generated virtual clinical cases, interpret symptoms, laboratory findings, and diagnostic test results, and make appropriate evidence-based therapeutic decisions for each case.

D. Personal and Professional Development

D.1 Create effective communication and collaboration with patients, caregivers, peers, and other healthcare providers about management of patients.

D.2 Demonstrate creative decision making when facing novel problems or challenges, and positive self-esteem and confidence when working with others.

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University, through its Special Need section, will exert all efforts to accommodate for individual's needs.

Special Needs Section:

Tel: 00962-5-3903333 **Extension: 4209**

Location: Students Affairs Deanship/ Department of Student Welfare Services

Email: amalomoush@hu.edu.jo
amalomoush@staff.hu.edu.jo

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance.* It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

On average, students need to spend 15 hrs of study and preparation weekly. At the beginning of the lectures, students should be on time and should not leave before the end of the lecture without an accepted excuse. **If the student missed a class, it is his/her responsibility to find out about any announcements or assignments they have missed.** For any clarification, students should communicate with their instructor at her posted office hours or by appointment. Students should listen well to the lecture, if anyone has a question, he/she should ask the instructor. Students can find the course material at the course Microsoft team/Model after the lecture.

Sharing of course materials is forbidden. No course material including, but not limited to, course outline, lecture hand-outs, videos, exams, and assignments may be shared online or with anyone outside the class. Any suspected unauthorized sharing of materials, will be reported to the university's Legal Affairs Office. If a student violates this restriction, it could lead to student misconduct procedures.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of The Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Missed Assessments

In all cases of assessment, students who fail to attend an exam on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a failure grade for this part of the assessment.

In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with university regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Cheating

Cheating, academic misconduct, fabrication and plagiarism will not be tolerated, and the university policy will be applied. Cheating policy: Participation, the commitment of cheating will lead to applying all following penalties together:

- Failing the subject, he/she cheated at
- Failing the other subjects taken on the same course
- Not allowed to register for the next semester
- The summer semester is not considered as a semester

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment:

Course Assessment Plan						
Assessment	Grade Weighting	Deadline Assessment	CILOs			
			A	B	C	D
First Exam	30 %	~ 6 th week	A	B	C	D
Second Exam	30 %	~ 10 th week	A	B	C	D
Final Exam	40 %	~ 15 th /16 th week	A	B	C	D

- **Formative assessment**
Quizzes, homework, assignments, projects

- **Summative assessment:**
Exams

Description of Exams

Test questions will predominately come from material presented in the lectures and the lectures themselves in addition to the textbooks. Semester exams may be conducted during the regularly

scheduled lecture period. Exams may consist of a combination of multiple choice, short answer, match, true and false, and/or descriptive questions.

No make-up exams will be given. Only documented absences will be considered as per HU guidelines. Make-up exams may be different from regular exams in content and format.

Grades are not negotiable and are awarded according to the following criteria:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

“Lecture hours and weeks are approximate and may change as needed”

Note: For the 2 lecture periods per week (S/T, M/W), one lecture period covers 1.5 lecture hours (75 minutes). The course content specifies chapters of the textbook that will be included in exams.

All lectures are delivered by face-to-face learning.

Course Content					
Week Number	No. of Hours	CILOs	Subject	Delivery Methods	Assessment Methods
1	1.5	A	Introduction to pharmacotherapy and the course outline	Active Classroom-Based Discussions	-
1-8	21	A, B, C, D	Cardiovascular Diseases	PowerPoint Lecture	Exams
	9		- Hypertension	Active Classroom-Based Discussions	Quizzes
	6		- Chronic Heart Failure		Homework
	3		- Stable Ischemic Heart Disease	Relevant Videos	Project

	3		- Dyslipidemia	Practical Clinical Case Scenarios	
8-10	6	A, B, C, D	Endocrine disorders	PowerPoint Lecture	Exams
	6		<u>Diabetes mellitus:</u>	Active Classroom-Based Discussions	Quizzes
	3		- <u>Type 1</u>	Relevant Videos	Homework
	3		- <u>Type 2</u>	Practical Clinical Case Scenarios	Project
10-12	6	A, B, C, D	Respiratory Disorders	PowerPoint Lecture	Exams
	3		<u>Asthma</u>	Active Classroom-Based Discussions	Quizzes
	3		<u>COPD</u>	Relevant Videos	Homework
				Practical Clinical Case Scenarios	Project Exams
12-13	3	A, B, C, D	Endocrine Disorders	PowerPoint Lecture	Exams
			<u>Thyroid Disorders:</u>	Active Classroom-Based Discussions	Quizzes
	1.5		- Hyperthyroidism	Relevant Videos	Homework
	1.5		- Hypothyroidism	Practical Clinical Case Scenarios	Project Exams
13-14	4.5	A, B, C, D	Review & Other Miscellaneous Topics	Active Classroom-Based Discussions	-
				Practical Clinical Case Scenarios and Problem-Based Calculations	
15	-		University Final Exams		

This course outline was prepared by Dr. Enaam M. Al Momany and last updated by Dr Enaam M. Al Momany & Dr Tahani J. Alwidyan in February 2026.