



**ASU**  
APPLIED SCIENCE PRIVATE UNIVERSITY



Amman- Jordan

عمان - الأردن



كلية الصيدلة  
Faculty Of Pharmacy



The Bachelor Degree in Pharmacy  
of Applied Science Private  
University is Certified by the  
Accreditation Council for Pharmacy  
Education



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فلنجعل من الأردن العربي جامعة للعرب

**Faculty: Pharmacy**

**Department: Clinical Pharmacy and Therapeutics**

**AcademicYear: 2020-2021**

**Semester: First**

( *CourseSyllabus* )

<i>Subject Name</i>	<i>Credit Hour</i>	<i>Course No.</i>	<i>Prerequisite</i>	<i>Concurrent course</i>
Clinical Pharmacy Therapeutics II	2	0906512	0906422 Clinical Pharmacy and Therapeutics I	0906513 Practical Clinical Pharmacy and Therapeutics

<i>Coordinator Name</i>	<i>Lecturer/s</i>	<i>Room No.</i>	<i>E-mail</i>	<i>Course website</i>	<i>Office Hours</i>
<b>Dr. May Abu Taha</b>	Dr. May Abu Taha	4208	<a href="mailto:m_abutaha@asu.edu.jo">m_abutaha@asu.edu.jo</a>	<a href="http://bio.asu.edu.jo/bio/index.jsp">http://bio.asu.edu.jo/bio/index.jsp</a>	As shown on individual lecturer time table

### Course Description

The course provides students with a way of thinking in the management of certain common diseases. The course aims at teaching students basic skills needed for independent learning capacity. The course will cover the basic concepts in the management (both non-pharmacologic and pharmacologic approaches) of some disorders such as asthma, COPD, chronic kidney disease, anxiety disorders, osteoarthritis, osteoporosis, rheumatoid arthritis, GERD and peptic ulcer disease, gastrointestinal infections, respiratory tracts infections, and urinary tract infections.

### Course Objectives

Upon successful completion of the course:

1. The students will be able to describe pathophysiology, clinical manifestation, diagnosis, goal of pharmacotherapy, treatment plan of respiratory disorders, renal disease, anxiety disorders, bone disorders, GERD and peptic ulcer disease and infections.
2. The students will be able to understand the clinical uses, pharmacokinetics and clinically significant side effects, clinically relevant drug interactions and contraindications to medication used.
3. The students will be able to provide patient education about selected disorders.
4. The students will be able to recommend appropriate treatment plan (pharmacological and nonpharmacological) for individual patients.



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5. The students will be able to prepare pharmacy student to transfare therapeutic guidelines (american) to real life practice.

### Intended Learning Outcomes

Following the successful completion of this course, the student should be able to:

#### A. *Knowledge and understanding:*

- A1. Understand the main concepts of pathophysiology of the covered disease conditions with their clinical signs and symptoms, laboratory tests and diagnostic procedures.  
A2. Provide students with the knowledge of complications, goals of pharmacotherapy, and patient education of selected disorders, and their treatment.  
A3. Describe the clinical management of the selected disorders.  
A4. Identify drug-related problems, clinically significant side effects, interactions, and contraindication to medications used in the treatment of selected disorders.

#### B. *Subject specific skills:*

- B1. Evaluate and solve drug-related and patient-related problems.  
B2. Design rational pharmacotherapy regimen and monitoring plan for drug regimen to achieve therapeutic outcomes according to the patient specific condition.  
B3. Apply learned information in providing appropriate patient counseling.

#### C. *Cognitive and Intellectual skills:*

- C1. Analyze clinical case information and assess problems in therapeutic management of patients.  
C2. Design appropriate pharmacologic and non-pharmacologic plans for selected diseases.  
C3. Design plans for monitoring drug efficacy, possible adverse effects, compliance and drug-drug or food-drug interactions.

#### D. *Transferable Skills:*

- D1. Apply the gained knowledge to design the rational pharmacotherapy regimen according to the patient specific condition and to draw up a follow up plan.  
D2. Collect and interpret information from medical guidelines.

### Teaching and Learning Methods:

Development of ILOs is promoted through the following teaching and learning methods:

ILOs	Learning Methods	Evaluation Methods
A, B,C and D	Lectures Case discussion	Multiple choice, online exams Participation (answering questions during lectures)



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### Course Content:

Week	Date	Lecture number	Topic's Details	Exams/ /quizes	Main Reference (chapter)	ILOs achieved
1.	18/10/2020	1 hours	Course outline, objectives, outcomes, references and grading system		----	----
2.	25/10/2020	2 hours	Asthma		Ref1: Chapter 77	A1-A4 B1-B3 C1-C3
3.	1/11/2020	2 hours	COPD		Ref1: Chapter 78	A1-A4 B1-B3 C1-C3 D1-D2
4-5	8/11/2020	3 hours	Anxiety Disorders		Ref1: Chapter 66	A1-A4 B1-B3 C1-C3
5			<b>QUIZ</b>			
6-7	22/11/2020	2 hours	Osteoarthritis		Ref1: Chapter 2	A1-A4 B1-B3 C1-C3
7-8	29/11/2020	2 hours	Osteoporosis		Ref1: Chapter 3	A1-A4 B1-B3 C1-C3
8-9	6/12/2020	2 hours	Rheumatoid Arthritis		Ref1: Chapter 4	A1-A4 B1-B3 C1-C3 D1-D2
9			<b>MIDTERM EXAM</b>			
9-10	13/12/2020	2 hours	GERD and Peptic Ulcer Disease		Ref1: Chapter 24, 29	A1-A4 B1-B3 C1-C3
10.	20/12/2020	2 hours	Gastrointestinal Infections		Ref1: Chapter 39	A1-A4 B1-B3 C1-C3 D1-D2
11.	27/12/2020	2 hours	Respiratory Tracts Infections, Lower		Ref1: Chapter 43	A1-A4 B1-B3 C1-C3
12.	3/1/2021	2 hours	Respiratory Tracts Infections, Upper		Ref1: Chapter 44	A1-A4 B1-B3 C1-C3

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						D1-D2
13.	10/1/2020	2 hours	Urinary Tract Infections		Ref1: Chapter 50	A1-A4 B1-B3 C1-C3 D1-D2
14.	17/1/2021	2 hours	Chronic Kidney Disease		Ref1: Chapter 74	A1-A4 B1-B3 C1-C3
<b>FINAL EXAM</b>						

#### Grade Distribution:

Your course grade will be determined by the following:

Assessment Method	% of Final Grade	Due Date
Quiz	15	To be decided
Midterm Exam	35	To be decided
Participation	-	To be decided
Final Exam	50	To be decided

\* Provisional dates are scheduled in the course schedule. Each instructor will announce the exact date for the quizzes of each section at the beginning of the semester.

*Distribution of examination material (may vary depending on material included)*

#### Course Policies:

##### A- Attendance policies:

Attendance: Mandatory.

First warning – with 3 absences

Last warning – with 4 absences

Failing in the subject – with 5 absences

##### B- Absences from exams and handing in assignments on time:

Will result in zero achievement unless health report or other significant excuse is documented.

##### C- Health and safety procedures: N/A

##### D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all following penalties together

1. Failing the subject he/she cheated at
2. Failing the other subjects taken in the same course
3. Not allowed to register for the next semester. The summer semester is not considered as a semester

##### E- Grading policy:

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### Exams and Quizzes.

Quiz Exam: **15 points**

Midterm Exam **35points**

Participation:

Final Exam: **50 points**

Total: **100 points**

### F- Available university services that support achievement in the course:

Classrooms, internet classes, ASU online web site (messages, assignment, and notes)

### Required equipment:

Data show and internet connection

### Make-up Exam Policy:

*Make-up exams will be offered for valid reasons. They may be different from regular exams, both in content and format.*

### Textbooks information:

#### Main Reference:

1. Pharmacotherapy Handbook, 10<sup>th</sup> edition (2017) - McGraw-Hill. Authors: Barbara G. Wells, Joseph T. DiPiro, Terry L. Schwinghammer, Cecily V. DiPiro.

#### Other References:

2. Pharmacotherapy: A Pathophysiologic Approach, 11<sup>th</sup> edition (2020)- McGraw-Hill.  
Authors: Joseph T. DiPiro , Robert L. Talbert, Gary C. Yee, Gary R. Matzke, Barbara G. Wells, L. Michael Posey.
3. Pharmacotherapy Principles & Practice, 5<sup>th</sup>edition (2019) - McGraw-Hill. Authors: Chisholm-Burns M., Schwinghammer T., Wells B., Malone P., Kolesar J. and Dipiro J.
4. Clinical Pharmacy and Therapeutics, 6<sup>th</sup>edition (2018)- Elsevier. Authors: Cate Whittlesea, and Karen Hodson.
5. Handbook of Applied Therapeutic, 9<sup>th</sup>edition (2016) – Wolters Kluwer. Authors: Sweet B., Alldredge B., Corelli R., Ernst M., Guglielmo BJ., Jacobson P., Kradjan W., Williams B.



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**Additional information:**

No side talks during lecture  
No mobile phones during lecture  
Entering the lecture theatre after the instructor is not permitted.

Homework should be done by students independently and will be asked at the exams

**Course Material and Announcements**

Students need to use the e-learning page at the ASU website in order to get all lecture handouts and guidelines which will be uploaded there.

In addition, course related announcements and exam results will be posted on the e-learning page and is the responsibility of each student to check the site regularly.

Name of Course Coordinator: **Dr. May Abu Taha** Signature:

Date: 11-10-2020

Head of curriculum committee: **Reem Abutayeh** Signature:

Head of Department: **Dr. May Abu Taha**

Signature:

Dean: **Prof. Iman Al Bashiti** Signature:

Copy to:  
Head of Department  
Head of curriculum committee  
Course File