



**The University of Jordan**  
**Accreditation & Quality Assurance Center**

# **COURSE Syllabus**

1	Course title	<b>Case study in Therapeutics II</b>
2	Course number	<b>1203430</b>
3	Credit hours (theory, practical)	<b>1 (practical)</b>
	Contact hours (theory, practical)	<b>3 (practical)</b>
4	Prerequisites/corequisites	<b>1203429 Co-Req</b>
5	Program title	<b>PharmD</b>
6	Program code	
7	Awarding institution	<b>The University of Jordan</b>
8	Faculty	<b>Pharmacy</b>
9	Department	<b>Biopharmaceutics &amp; Clinical Pharmacy</b>
10	Level of course	<b>undergraduate</b>
11	Year of study and semester (s)	<b>Second semester of the 4<sup>th</sup> year</b>
12	Final Qualification	<b>PharmD</b>
13	Other department (s) involved in teaching the course	<b>Pharmaceutical Sciences &amp; Pharmaceutics</b>
14	Language of Instruction	<b>English</b>
15	Date of production/revision	<b>1 February, 2016</b>

**16. Course Coordinator:**

**Office numbers, office hours, phone numbers, and email addresses should be listed.**

**Dr.Eman abu-rish PhD.**

<http://academic.ju.edu.jo/e.aburish/default.aspx>

**Office 326**

**Phone 5 355 000, Ext. 23372.**

**E-mail: e.aburish@gmail.com**

**Office hours to be announced**

**17. Other instructors:**

<b>Name</b>	<b>Office Phone No.</b>	<b>Office Hours</b>	<b>E-mail</b>
<b>Dr. Ala Laham</b>	23345	TBA	alalaham@hotmail.com
<b>Dr. Amal Akour</b>	23344	TBA	amalakour@gmail.com

**18. Course Description:****19. Course aims and outcomes:**

**A- Aims:**

1. Describe the clinical manifestations of selected respiratory, renal and infectious diseases
2. Understand the clinical issues of medication use
3. Provide patient education about disease and medications
4. Recommend the most appropriate pharmacological and nonpharmacological treatment for a selected patient

**B- Course Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...****A. Knowledge and understanding:**

- ✓ To provide students with the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected respiratory, renal and infectious diseases.
- ✓ To provide students with the knowledge of clinical uses, pharmacokinetics, clinically significant side effects & drug interactions and contraindications to medications used in the treatment of respiratory, renal and infectious diseases.

**B. Intellectual skills:**

- ✓ Through short case discussion, to enable students to identify drug-related problems and recommend the appropriate pharmacotherapy treatment.

**C. Subject-specific skills:**

- ✓ Develop the ability to design the rational pharmacotherapy regimen according to the patient specific condition

**D. Transferable skills:**

- ✓ To enable students to provide information related to diseases and their management through browsing the internet professional sites.
- ✓ To enable students to collect and interpret information from medical guidelines & journal databases (MEDLINE, e-library)

**Program Competencies Achieved:**

1. Dispensing of Medicines
  - 1.1 Recognize pharmacological classes of drugs
2. Patient Care
  - 2.1 Identify indications, side effects and contraindications of medicines
  - 2.2 Identify drug-drug and drug-food interactions of medicines
  - 2.3 Recognize main physiological principles that govern normal body functioning
  - 2.4 Identify pathophysiological basis of major human diseases
  - 2.5 Advise patients and other health professionals on proper usage of medicines including their strength, frequency, dosage form and route of administration
3. Professional Development
  - 3.1 Utilize information technology tools to enhance working experience
  - 3.2 Follow new advances in science related to the profession
4. Interpersonal and Communication
  - 4.1 Prepare and deliver presentations effectively
  - 4.2 Express ideas, instructions and information in a clear and comprehensible manner

**Teaching Methods**

- ✓ Lectures

**20. Topic Outline and Schedule:\***

Week	Day	Date	Topic	Workshop II - Suggested
first	Sun	31-Jan-16	Introduction	Orientation
	Tue	2-Feb-16	Asthma	
	Thu	4-Feb-16	Asthma	
2nd	Sun	7-Feb-16	Asthma	Orientation
	Tue	9-Feb-16	Asthma	
	Thu	11-Feb-16	Chronic Obstructive Pulmonary Disease	
3rd	Sun	14-Feb-16	Chronic Obstructive Pulmonary Disease	1- Asthma (acute + chronic)
	Tue	16-Feb-16	Chronic Obstructive Pulmonary Disease	
	Thu	18-Feb-16	Chronic Obstructive Pulmonary Disease	
4th	Sun	21-Feb-16	Acute Kidney Injury	2- COPD
	Tue	23-Feb-16	Acute Kidney Injury	
	Thu	25-Feb-16	Chronic Kidney Disease - progression	
5th	Sun	28-Feb-16	Chronic Kidney Disease - progression	3- AKI (drug induced + AKI)
	Tue	1-Mar-16	Chronic Kidney Disease - management	
	Thu	3-Mar-16	Chronic Kidney Disease - management	
6th	Sun	6-Mar-16	Chronic Kidney Disease - management	4- CKD (progression)
	Tue	8-Mar-16	Drug Therapy Individualization in Renal Insufficiency (self reading)	
	Thu	10-Mar-16	Osteoporosis	
7th	Sun	13-Mar-16	Osteoporosis	5- CKD (ESRD-complications)
	Tue	15-Mar-16	Osteoarthritis	
	Thu	17-Mar-16	Osteoarthritis	
8th	Sun	20-Mar-16	<b>Midterm ??</b>	<b>Midterm</b>
	Tue	22-Mar-16		
	Thu	24-Mar-16		
9th	Sun	27-Mar-16	Antimicrobial Regimen Selection (Self-Reading)	6- Osteoporosis + Osteoarthritis
	Tue	29-Mar-16	Lower Respiratory Tract Infection	
	Thu	31-Mar-16	Lower Respiratory Tract Infection	
10th	Sun	3-Apr-16	Lower Respiratory Tract Infection	7- Pneumonia (community + hospital acquired)
	Tue	5-Apr-16	Upper Respiratory Tract Infection	
	Thu	7-Apr-16	Upper Respiratory Tract Infection	
11th	Sun	10-Apr-16	Upper Respiratory Tract Infection	8- UTI (lower + pyelonephritis)
	Tue	12-Apr-16	Urinary Tract Infection and Prostatitis	
	Thu	14-Apr-16	Urinary Tract Infection and Prostatitis	
12th	Sun	17-Apr-16	Antimicrobial Prophylaxis in Surgery	9- Surgical prophylaxis + Meningitis
	Tue	19-Apr-16	Antimicrobial Prophylaxis in Surgery	
	Thu	21-Apr-16	CNS infections	
13th	Sun	24-Apr-16	CNS infections	10- PUD + NSAID induced ulcer
	Tue	26-Apr-16	Peptic Ulcer	
	Thu	28-Apr-16	Peptic Ulcer	
14th	Sun	1-May-16		Final
	Tue	3-May-16		
	Thu	5-May-16		

\*All ILOS are achieved during each workshop

**21. Teaching Methods:**

Development of ILOs is promoted through the following <u>teaching and learning methods</u> :		
ILO/s	Learning Methods	Evaluation Methods
A1-3, B1, C1	Lectures	Exams, Quizzes
D1	Assignment	Patient education material
D2	Homeworks	Exams, Quizzes

Learning skills:

1. Critical thinking
2. Digital literacy
3. Problem-solving skills
4. Self-directed learning

**22. Evaluation Methods and Course Requirements:**

**Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:**

1. Exams
2. Quizzes
3. Students reports on assignments

**23. Course Policies:****- Attendance policies:**

***Attendance: Mandatory.***

- First warning – with 1 absences
- Last warning – with 2 absences
- Failing in the subject – with 3 absences

***No side talks***

***No mobile phones***

***Entering the lecture theatre after the instructor is not permitted.***

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

**Cheating policy:**

**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

**Not allowed to register for the next semester. The summer semester is not considered as a semester**

**- Grading policy:**

**Exams and Quizzes.:**

Evaluation	Point %
Pharmacy care plan worksheet	10%
Case study presentations	10%

<b>quizzes</b>	<b>10%</b>
<b>Midterm Exam</b>	<b>30%</b>
<b>Final exam</b>	<b>40%</b>

\* Provisional dates are scheduled in the course schedule at the end of this document. The exact date for the quizzes of each section will be announced at the beginning of the semester.

***distribution of examination material (may vary depending on material included):***

- 25% - diseases: etiology & pathogenesis, clinical presentation, stages & classification, complications, disease management guidelines, pharmacotherapy goals, patient education
- 30% - pharmacotherapy: clinical uses, method of administration, monitoring for efficacy and adverse effects, drug interactions, & contraindications, patient counseling
- 45% - integration and analysis (solving cases)

**Course Material and Announcements**

F- All lecture handouts and guidelines will be uploaded on the UJ e-learning system which can be accessed at <http://elearning.ju.edu.jo> .

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

**24. Required equipment:**

Datashow and internet connection

**25. References:**

1. Pharmacotherapy principles & practice. Chisholm-Burns et al, 3<sup>rd</sup> edition, 2013.
2. Pharmacotherapy: A Pathophysiological Approach. DiPiro, 9<sup>th</sup> edition, 2013.
3. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10<sup>th</sup> edition, 2012.
4. Schwinghammer, T.L., Pharmacotherapy Casebook - A Patient-Focused Approach, 9th Edition

5. Disease management guidelines (specified in lecture notes)

**Other Useful Sources**

1. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 5<sup>th</sup> edition, 2012.
2. Basic & Clinical Pharmacology, ed. Katzung, 12<sup>th</sup> edition, 2012.
3. Pathophysiology of the disease: an introduction to clinical medicine, ed. McPhee & Hammer, 6<sup>th</sup> ed, 2010

**26. Additional information:**

Name of Course Coordinator: Dr. Eman Abu-Rish -Signature: ----- Date: -----

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Head of curriculum committee/Department: ----- Signature: -----

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Head of Department: ----- Signature: -----

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Head of curriculum committee/Faculty: ----- Signature: -----

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Dean: ----- -Signature: -----

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Course File