



The University of Jordan
Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Case study in Therapeutics IV
2	Course number	1203507
3	Credit hours (theory, practical)	1 (practical)
	Contact hours (theory, practical)	3 (practical)
4	Prerequisites/corequisites	1203506 Co-Req
5	Program title	PharmD
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Pharmacy
9	Department	Biopharmaceutics & Clinical Pharmacy
10	Level of course	undergraduate
11	Year of study and semester (s)	Second semester of the 5th year
12	Final Qualification	PharmD
13	Other department (s) involved in teaching the course	Pharmaceutical Sciences & Pharmaceutics
14	Language of Instruction	English
15	Date of production/revision	1 February, 2016

16. Course Coordinator:

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

Prof. Nailya Bulatova, MD, PhD.

<http://eacademic.ju.edu.jo/nyounes/default.aspx>

Office 121

Phone 5 355 000, Ext. 23550.

E-mail: nyounes@ju.edu.jo

Office hours to be announced

17. Other instructors:

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

Prof. Al-Motassem Yousef, PhD.

Office 122.

Phone 5 355 000, Ext. 23557.

E-mail: ayousef@ju.edu.jo

Office hours to be announced

18. Course Description:

As stated in the approved study plan.

Will cover the pathophysiology, clinical presentations, pharmacotherapy (pharmacokinetics & pharmacodynamics, drug/drug interactions, dosage calculations, adverse effects, treatment

algorithm, goals of therapy & patient education) of: critical care, women health and CNS disorders.

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:*

Cases covered by Therapy 4 workshop	
Week number	Topics
1	Introduction
2	Chronic pain management
3	Perioperative care
4	Septic shock
5	Metabolic Acidosis
6	Electrolytes Abnormalities (Hyponatremia)
7	<u>Midterm Exam</u>
8	Parenteral nutrition
9	Enteral Nutrition
10	Anemia (IDA)
11	Pregnancy complications (Preeclampsia)

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:		
<ol style="list-style-type: none"> 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 <u>assessment methods and requirements</u>:
<ol style="list-style-type: none"> 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%
quizzes	10%
Midterm Exam	30%
Final exam	40%

* 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, 3rd edition, 2013.
2. Pharmacotherapy: A Pathophysiological Approach. DiPiro, 9th edition, 2013.
3. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10th 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, 5th edition, 2012.
2. Basic & Clinical Pharmacology, ed. Katzung, 12th edition, 2012.
3. Pathophysiology of the disease: an introduction to clinical medicine, ed. McPhee & Hammer, 6th ed, 2010

26. Additional information:

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

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

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

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

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

Assurance

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Head of Department
Assistant Dean for Quality

Course File