



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Doctor Of Pharmacy (Pharm D.) Department**

PHMD564 Early Practice Experience (For Pharm D Students)

Second Semester 2022-2023

**Course Catalog**

2 Credit Hours. The course covers several aspects essential for the advanced experiential training for the Doctor of Pharmacy (PharmD) students. The course provides critical insights into skills needed for clinical pharmacy practice. The topics covered are related to pharmaceutical care provision, dose calculations and adjustments, therapeutic drug monitoring, and reporting adverse drug reactions. The course also covers topics essential for professional practice and effective multidisciplinary team interactions.

**Text Book**

<b>Title</b>	Pharmacotherapy: A Pathophysiological Approach.
<b>Author(s)</b>	Joseph T. DiPiro, Gary C. Yee, L. Michael Posey, Stuart T. Haines, Thomas D. Nolin, Vicki Ellingrod.
<b>Edition</b>	11th Edition
<b>Short Name</b>	Ref. 1
<b>Other Information</b>	Publisher: McGraw-Hill.

**Instructor**

<b>Name</b>	<b>Dr. NEHAD AYOUB</b>
<b>Office Location</b>	M5 L-4
<b>Office Hours</b>	Sun : 10:00 - 11:00 Sun : 11:00 - 12:00 Mon : 10:15 - 11:15 Tue : 10:00 - 11:00 Wed : 10:15 - 11:15 Wed : 13:15 - 14:15
<b>Email</b>	nmayoub@just.edu.jo

**Class Schedule & Room**

Section 1:  
Lecture Time: Sun : 12:30 - 13:30  
Room: SB13

Section 2:  
Lecture Time: Tue : 08:30 - 09:30  
Room: SB19

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Orientation and course introduction	
Week 2	Patient care process-Part I	
Week 2	Patient care process-Part II	
Week 3	Electrolyte disturbances and management-Part I	
Week 3	Electrolyte disturbances and management-Part II	
Week 4	Ion-gap and pH disturbances-Part I	
Week 4	Ion-gap and pH disturbances-Part II	
Week 5	Fluid disturbances & management-Part I	
Week 5	Fluid disturbances & management-Part II	

Week 6	Clinical dose calculations and calculations of critical drip-type medication-Part I	
Week 6	Clinical dose calculations and calculations of critical drip-type medication-Part II	
Week 7	Perioperative managements-Part I	
Week 7	Perioperative managements-Part II	
Week 8	Adult creatinine clearance calculations-Part I	
Week 8	Adult creatinine clearance calculations-Part II	
Week 9	Pediatric clinical dose calculations-Part I	
Week 9	Pediatric clinical dose calculations-Part II	
Week 10	Chemotherapy dose calculation-Part I	
Week 10	Chemotherapy dose calculation-Part II	
Week 11	Interprofessional and multidisciplinary teamwork	
Week 11	Pharmacovigilance-Reporting of adverse drug reactions	
Week 12	Patient counseling	
Week 12	Patient privacy and confidentiality in pharmacy practice	
Week 13	Soft skills for healthcare professionals	
Week 13	Introducing PharmD students to advanced experiential training	
Week 14	Preparing PharmD students for advanced experiential training: Hakeem software training	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify patient care-related problems [1PLO2.1]	40%	
Solve patient care-related problems [1PLO3.1]	40%	
Identify adverse drug reactions [1PLO3.1]	10%	
Apply professional behavior to patients and healthcare professionals [1PLO4.4]	10%	

Relationship to Program Student Outcomes (Out of 100%)																
PLO1.1	PLO2.1	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.2	PLO3.3	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1	PLO5.1
	40				50									10		

Evaluation	
Assessment Tool	Weight
Midterm Exam	40%
Interactive Learning	10%
Final Exam	50%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the dean or the chair of the department. The format for the exams is generally (but NOT always) in the form of multiple-choice questions. Grades will not be given out via e-mail.
Cheating	Prohibited. In case of cheating the student will be subject to punishment according to the standard regulations and protocols of JUST.
Attendance	1. Excellent attendance is expected. 2. JUST policy requires the faculty member to assign a ZERO grade (35%) if a student misses 20% of the classes. 3. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Withdraw	Withdrawal from the course must meet the university deadline as stated in the current student academic calendar.
Participation	Excellent participation in class is expected. Students are also encouraged to ask questions after or at the office during office hours.
Calculator	You will need to have and practice using a scientific calculator. It is imperative that the calculator is not programmable. The calculator will be inspected during the mid-term and the final exams to make sure it complies with the course policies.
Communication with instructors	1. Students should communicate through their official JUST emails. Communication through personal email accounts (Yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. 2. Students are required to check their JUST email accounts and the E-learning page of the course regularly for announcements and notifications.

Classroom Etiquette	<ol style="list-style-type: none"> <li>1. Make sure you arrive at class on time</li> <li>2. Respect people, places, and things</li> <li>3. Raise your hand to speak</li> <li>4. Listen respectfully</li> <li>5. Food and drink are not permitted in class</li> <li>6. Do not engage in aside conversations</li> <li>7. Cell phones and electronic devices are not allowed during class time</li> <li>8. Texting is not permitted in class</li> <li>9. The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission.</li> <li>10. Your phone should be turned off. If you must keep your phone on, you should set it to vibrate or silent mode and leave class if you receive an emergency call.</li> </ol>
Email Etiquette	<ol style="list-style-type: none"> <li>1. Type your email into the body of the email NOT in the subject line.</li> <li>2. Provide a clear subject line. Keep it short and to the point, but not vague. Name, class, and what the email is specifically about should be in the subject line.</li> <li>3. Body of the email: Your emails should always start with a formal greeting like you would in a letter, be brief (one screen length), check your spelling/grammar/punctuation, use a professional font (not decorative), and include a salutation aligned with your message (Thank you or sincerely).</li> <li>4. Avoid sending an email to your professor asking about grades or complaining about them. Schedule an appointment to meet in person to discuss areas for improvement if you have inquiries.</li> <li>5. Consider the impression your tone will make in the email. It is recommended waiting 24 hours before sending an email or responding to an email if you are emotionally charged.</li> <li>6. It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient.</li> <li>7. Make sure you read and reread your email before sending it. Make sure your emails are grammatically correct, have proper titles, and are properly spelled.</li> <li>8. If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting.</li> <li>9. You should double-check your ATTACHMENTS. Refer to your attachments within the body of your email. It is advisable to avoid attaching large files and to consider sending the document as a PDF.</li> <li>10. Please allow sufficient time for a response. The sender and receiver should both allow sufficient time. As a rule of thumb, 24 work hours should be given. If sending emails after official work hours or during formal vacations, a delay in response is expected. Following that if no response is received, you can follow up.</li> </ol>

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