



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR441 Pharmacology (3) - JNQF Level: 7

First Semester 2023-2024

Course Catalog

3 Credit Hours. This course discusses the pharmacology of chemotherapeutic agents including antibacterial, antifungal, antiviral, and anticancer agents. This course also discusses the pharmacology of hormones and drugs acting on the endocrine system.

Text Book

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| Title | BASIC AND CLINICAL PHARMACOLOGY |
| Author(s) | Bertram G. Katzung |
| Edition | 16th Edition |
| Short Name | Ref no. 1 |
| Other Information | |

Course References

| Short name | Book name | Author(s) | Edition | Other Information |
|------------|--|---|--------------|-------------------|
| Ref no. 2 | Katzung & Trevor's Pharmacology Examination and Board Review | Anthony Trevor, Bertram Katzung, Marieke Knudering-Hall | 13th Edition | |

Instructor

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| Name | Dr. Belal Al-Husein |
| Office Location | M5 L-4 |
| Office Hours | Mon : 11:30 - 13:00 Tue : 08:00 - 09:00 Wed : 11:30 - 13:00 Thu : 08:00 - 10:00 |
| Email | belalhusein@just.edu.jo |

Instructor

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| Name | Dr. Rasha Khader |
| Office Location | - |
| Office Hours | Sun : 12:30 - 14:30 Tue : 12:30 - 14:30 Wed : 12:00 - 12:30 Thu : 11:30 - 13:00 |
| Email | rekhader@just.edu.jo |

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue, Thu : 10:30 - 11:30
Room: P1102

Section 2:
Lecture Time: Mon, Wed : 10:00 - 11:30
Room: N1303

| Tentative List of Topics Covered | | |
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| Weeks | Topic | References |
| Week 1 | Beta-Lactam and Other Cell Wall and Membrane Active Antibiotics | Chapter 43 From Ref no. 1 |
| Week 2 | Tetracycline, Macrolides, Clindamycin, Chloramphenicol, Streptogramins, and Oxazolidinones | Chapter 44 From Ref no. 1 |
| Week 3 | Aminoglycosides and Spectinomycin | Chapter 45 From Ref no. 1 |
| Week 4 | Sulfonamides, Trimethoprim, and Quinolones | Chapter 46 From Ref no. 1 |
| Week 5 | Antifungal Agents | Chapter 48 From Ref no. 1 |
| Week 6 | Antiviral Agents | Chapter 49 From Ref no. 2 |
| Weeks 7, 8 | Anticancer Drugs | Chapter 54 From Ref no. 1 |
| Week 9 | Hypothalamic and Pituitary Hormones | Chapter 37 From Ref no. 2 |
| Week 10 | Thyroid and Antithyroid drugs | Chapter 38 From Ref no. 1 |
| Week 11 | Adrenocorticosteroids & Adrenocortical Antagonists | Chapter 39 From Ref no. 2 |
| Week 12 | Gonadal Hormones & Inhibitors | Chapter 40 From Ref no. 2 |
| Weeks 13, 14 | Pancreatic Hormones and Antidiabetic drugs | Chapter 41 From Ref no. 1 |

| Mapping of Course Outcomes to Program Outcomes and NQF Outcomes | Course Outcome Weight (Out of 100%) | Assessment method |
|--|-------------------------------------|-------------------|
| Describe the molecular pharmacology and the mechanism of action of hormonal therapies and commonly used chemotherapeutic agents. [1PLO1.1] [1L7K1] | 50% | |
| Describe the adverse effects of the hormonal therapies and commonly used chemotherapeutic agents. [1PLO1.1] [1L7K1] | 20% | |
| Identify the pharmacokinetic properties of hormonal therapies and commonly used chemotherapeutic agents. [1PLO1.1] [1L7K1] | 20% | |
| Outline the indications of hormonal therapies and commonly used chemotherapeutic agents. [1PLO1.1] [1L7K1] | 10% | |

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

| Relationship to NQF Outcomes (Out of 100%) | |
|--|------|
| | L7K1 |
| | 100 |

| Evaluation | |
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| Assessment Tool | Weight |
| First Exam | 30% |
| Second Exam | 25% |
| Pharmacology Project/Active Learning | 5% |
| Final Exam | 40% |

| Policy | |
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| Exams | <p>The format for the exams includes multiple-choice questions, clinical case scenarios, and short essay questions. Grades will not be given out via e-mail.</p> <p>Makeup Exams Makeup exam should not be given unless there is a valid excuse. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.</p> |

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| Cheating and academic dishonesty | <p>The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied.</p> <p>المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبسا بالغش فتوقع عليه العقوبات التالية مجتمعة</p> <p>أ. اعتباره راسبا في ذلك الامتحان أو الاختبار</p> <p>ب. الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل</p> <p>ج. فصله من الجامعة لمدة فصل دراسي واحد، وهو الفصل التالي للفصل الذي ضبط فيه</p> |
| Attendance | Excellent attendance is expected. JUST policy requires the faculty member to assign a ZERO grade (35%) if a student misses a total of 20% of classes. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed. |
| Participation | Excellent participation in class is expected. Students are also encouraged to ask questions. |
| Drop Date | Last day to drop the course is before the twelve (12th) week of the current semester. |
| Classroom etiquette | <p>Make sure you arrive at class on time.</p> <p>Respect people, places, and things</p> <p>Raise your hand to speak.</p> <p>Listen respectfully.</p> <p>Food and drink are not permitted in class.</p> <p>Do not engage in aside conversations.</p> <p>Texting is not permitted in class.</p> <p>The use of cell phones, smartphones, or other mobile communication devices is disruptive and is therefore prohibited during class without permission.</p> |
| Email etiquette | <p>Students should communicate through their official University email accounts.</p> <p>Communication through personal email accounts (Yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided.</p> <p>Type your email into the body of the email NOT in the subject line.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>Consider the impression your tone will make in the email. It is recommended to wait 24 hours before sending an email or responding to an email if you are emotionally charged.</p> <p>It is not appropriate to write in ALL CAPS. This conveys the impression that you are shouting at the recipient.</p> <p>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.</p> <p>If you have multiple questions or the message runs long, you might consider revising the message or scheduling a face-to-face meeting.</p> <p>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.</p> <p>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.</p> |