



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Pharmacy Department**

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| PHAR344 Pharmacology 3 - JNQF Level: 7 |
| First Semester 2024-2025               |

| Course Catalog   |
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| 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. |
| <b>Teaching Method:</b> On Campus  |

| Text Book                |                                 |
|--------------------------|---------------------------------|
| <b>Title</b>             | Basic and Clinical Pharmacology |
| <b>Author(s)</b>         | Bertram G. Katzung              |
| <b>Edition</b>           | 16th Edition                    |
| <b>Short Name</b>        | Ref #1                          |
| <b>Other Information</b> |                                 |

**Course References**

| Short name | Book name  | Author(s)   | Edition      | Other Information |
|------------|--|---|--------------|-------------------|
| Ref #2     | Katzung & Trevor's Pharmacology Examination and Board Review | Anthony Trevor, Bertram Katzung, Marieke Knudering-Hall | 14th Edition |                   |

| Instructor      |                       |
|-----------------|-----------------------|
| Name            | Prof. Maha Al-Keilani |
| Office Location | P1L0                  |
| Office Hours    |                       |
| Email           | mskeilani@just.edu.jo |

| Class Schedule & Room   |
|---|
| Section 1:<br>Lecture Time: Mon, Wed : 11:30 - 13:00<br>Room: N4202 |

| Prerequisites |                                     |                      |
|---------------|-------------------------------------|----------------------|
| Line Number   | Course Name                         | Prerequisite Type    |
| 303430        | PHAR343 Pharmacology 2              | Prerequisite / Study |
| 302512        | PHAR251 Pharmaceutical Microbiology | Prerequisite / Study |

| Tentative List of Topics Covered |  |             |
|----------------------------------|--|-------------|
| Weeks                            | Topic  | References  |
| Weeks 1, 2, 3                    | Anticancer drugs   | From Ref #1 |
| Weeks 3, 4                       | Antiviral agents   | From Ref #2 |
| Weeks 4, 5                       | Antifungal Agents  | From Ref #1 |
| Week 6                           | Beta-Lactam and Other Cell Wall and Membrane Active Antibiotics                            | From Ref #1 |
| Week 7                           | Tetracycline, Macrolides, Clindamycin, Chloramphenicol, Streptogramins, and Oxazolidinones | From Ref #1 |
| Week 8                           | Aminoglycosides and Spectinomycin  | From Ref #1 |
| Week 9                           | Sulfonamides, Trimethoprim, and Quinolones   | From Ref #1 |
| Week 10                          | Hypothalamic and Pituitary Hormones  | From Ref #2 |
| Week 11                          | Adrenocorticosteroids & Adrenocortical Antagonists   | From Ref #2 |
| Weeks 11, 12                     | Gonadal Hormones & Inhibitors  | From Ref #2 |
| Week 12                          | Thyroid and Antithyroid drugs  | From Ref #1 |

