



Jordan University of Science and Technology
Faculty of Applied Medical Sciences
Allied Medical Sciences Department

LM742 Advanced Clinical Immunology - JNQF Level: 9

First Semester 2024-2025

Course Catalog

2 Credit Hours. This course is designed to introduce students to the role of the immune system in human health and disease. It will provide an overview of the immune system, immune responses to infections, and diseases caused by inappropriate immune reactions. Additionally, the course will cover immune manipulation, transplantation, and techniques used in clinical immunology laboratories.

Teaching Method: Blended

Text Book

Title	Chapel and Haeney's Essentials of Clinical Immunology
Author(s)	Siraj A. Misbah, Gavin P. Spickett and Virgil A.S.H. Dalm
Edition	7th Edition
Short Name	Text book 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Text book 2	Cellular and Molecular Immunology	Abbas, Lichtman and Pillai	10th Edition	
Ref 1	Janeway's Immunobiology	Murphy, Weaver, and Berg	10th Edition	
Ref 2	Clinical immunology and serology : a laboratory perspective	Linda E. Miller, Christine Dorresteyn Stevens.	5th Edition	

Ref 3	Clinical Immunology: Principles and Practice	Robert R. Rich, Thomas A. Fleisher, Harry W. Schroeder Jr., Cornelia M. Weyand, David B. Corry, Jennifer M. Puck	6th Edition	
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Instructor	
Name	Dr. Hassan Kofahi
Office Location	M6 L0
Office Hours	
Email	hmkofahi@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Sun : 14:30 - 15:30 Room: N4202

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3	Overview of immune responses	From Text book 2
Weeks 4, 5	Infection/immunity to microbes	From Text book 1 , From Text book 2
Weeks 6, 7	Immunodeficiency	From Text book 1
Weeks 8, 9	Hypersensitivity, Anaphylaxis and Allergy	From Text book 1 , From Text book 2
Weeks 10, 11	Autoimmunity	From Text book 1 , From Text book 2
Weeks 12, 13	Immune Manipulation	From Text book 1
Weeks 14, 15	Transplantation	From Text book 1 , From Text book 2
Week 16	Techniques in Clinical Immunology	From Text book 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Explain the components and functions of the immune system [1MSLO1] [1L9K1]	20%	Quizzes, Final exam
Describe the main immunological disorders and their related clinical manifestations. [1MSLO1] [1L9K2]	25%	Quizzes, Final exam
Examine clinical case scenarios and conclude potential diagnoses and outcomes. [1MSLO2] [1L9S2]	15%	Final exam

Evaluate the protocol, interpretation, and diagnostic value of current immunological techniques. [1MSLO2] [1L9S1]	10%	Presentations
Evaluate the immunological therapeutic approaches and their potential future applications and developments. [1MSLO5] [1L9S3]	5%	Final exam
Present recent research articles in clinical immunology and critique the data presented in these articles. [1MSLO5] [1L9C6]	15%	Research article discussion
Implement basic immunological knowledge to explain the etiology and pathogenesis of immunological disorders. [1MSLO6] [1L9S2]	10%	Quizzes, Final exam

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
						45	25			20	10

Relationship to NQF Outcomes (Out of 100%)					
L9K1	L9K2	L9S1	L9S2	L9S3	L9C6
20	25	10	25	5	15

Evaluation	
Assessment Tool	Weight
Quizzes	15%
Presentations	15%
Research article discussion	20%
Final exam	50%

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