



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

LM232 Immunology And Serology - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This course explores the basic concepts, components, and principles of the immune system. It studies the development and components of innate and adaptive immunity and the mechanisms that defend the body against microbes. This course also explores immune system disorders and their role in autoimmunity and hypersensitivity.

Teaching Method: Blended

Text Book

Title	Basic Immunology: Functions and Disorders of the Immune System
Author(s)	Abbas, Lichtman and Pillai, 10th edition
Edition	7th Edition
Short Name	Text book
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref 1	Immunology : a short course	Coico and Sunshine	7th Edition	
Ref 2	Kuby Immunology	Owen, Punt and Stranford	7th Edition	
Ref 3	Janeway's Immunobiology	Murphy and Weaver	9th Edition	

Instructor

Name	Dr. Hassan Kofahi
Office Location	M6 L0
Office Hours	
Email	hmkofahi@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Tue : 11:30 - 12:30 Room: NB49

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	INTRODUCTION TO THE IMMUNE SYSTEM	From Text book
Weeks 3, 4	INNATE IMMUNITY	From Text book
Week 5	ANTIGEN CAPTURE AND PRESENTATION TO LYMPHOCYTES	From Text book
Week 6	ANTIGEN RECOGNITION IN THE ADAPTIVE IMMUNE SYSTEM	From Text book
Week 7	T CELL-MEDIATED IMMUNITY	From Text book
Week 8	EFFECTOR MECHANISMS OF T CELL-MEDIATED IMMUNITY	From Text book
Weeks 9, 10	HUMORAL IMMUNE RESPONSES	From Text book
Weeks 11, 12	EFFECTOR MECHANISMS OF HUMORAL IMMUNITY	From Text book
Week 13	IMMUNOLOGICAL TOLERANCE AND AUTOIMMUNITY	From Text book
Week 14	HYPERSENSITIVITY	From Text book

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Define the basic concepts and terminology in immunology. [1SLO1] [1L7K1]	20%	
Identify the types and components of the innate and adaptive immunity. [1SLO1] [1L7K1]	15%	
Explain the mechanisms of the initiation, progression, and control of the immune responses. [1SLO1] [1L7K1]	30%	
Compare the different effector functions of the immune system [1SLO1] [1L7K1]	25%	
Use the basic immunological knowledge to explain the principles of immunological applications and immunological disorders. [1SLO2] [1L7C4]	10%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
90	10										

Relationship to NQF Outcomes (Out of 100%)	
L7K1	L7C4
90	10

Policy	
Attendance policy	Students are expected to attend 80% of lectures at least.
Expected workload	Students are expected to attend most of the lectures and study the textbook and course handouts.

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