



Jordan University of Science and Technology
Faculty of Science & Arts
Biotechnology & Genetic Engineering Department

BT336 Immunology & Serology Laboratory - JNQF Level: 6

Second Semester 2022-2023

Course Catalog

1 Credit Hours. The Immunology and Serology Laboratory course is an in-depth exploration of advanced laboratory techniques in the fields of immunology and serology, offering students a comprehensive and practical understanding of key methodologies. Participants will engage in hands-on experiences, developing proficiency in executing essential immunological techniques, including ELISA, Western blotting, immunofluorescence, as well as serological testing procedures such as blood typing and cross-matching.

Instructor

Name	Mr. Saif Alahmad
Office Location	-
Office Hours	
Email	szalahmad7@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Mon : 12:30 - 14:30

Room: LAB 10(PH2 L1)

Section 2:

Lecture Time: Mon : 14:30 - 16:30

Room: LAB 10(PH2 L1)

Section 3:

Lecture Time: Wed : 12:30 - 14:30

Room: LAB 10(PH2 L1)

Section 4:

Lecture Time: Tue : 10:30 - 12:30

Room: LAB 8 (PH2 L0)

Prerequisites		
Line Number	Course Name	Prerequisite Type
963332	BT333 Immunology & Serology	Pre./Con.

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Perform fundamental immunological techniques, such as ELISA (Enzyme-Linked Immunosorbent Assay), Western blotting, Fluorescent Immunoassays, and Radioimmunoassays, with precision and accuracy. [10A, 10B] [1L6K1]	20%	
Develop the skills to analyze and interpret experimental data obtained from immunological assays. [10A, 10D] [1L6S1, 1L6S2]	20%	
Gain expertise in serological testing methodologies, including blood typing, cross-matching, and serological screening for infectious diseases. [5A, 5B, 10C] [1L6S2, 1L6S3]	30%	
Emphasize the importance of maintaining a sterile working environment and adhering to biosafety protocols. [10B, 10E] [1L6C2]	20%	
Develop communication skills specific to the immunology and serology laboratory, including the ability to articulate experimental procedures, present findings, and discuss results with peers and instructors. [10E, 10F] [1L6K1, 1L6K2]	20%	

Relationship to Program Student Outcomes (Out of 100%)					
A	B	C	D	E	F
27.5	27.5	15	10	20	10

Relationship to NQF Outcomes (Out of 100%)					
L6K1	L6K2	L6S1	L6S2	L6S3	L6C2
30	10	10	25	15	20

Evaluation	
Assessment Tool	Weight
midterm exam	50%
Final Exam	50%

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