



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

BT302 Bioinformatics - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours.

Teaching Method: On Campus

Instructor

Name	Dr. Qutaiba Ababneh
Office Location	PH1L1
Office Hours	Sun : 08:30 - 09:30 Mon : 08:30 - 10:00 Wed : 08:30 - 10:00 Thu : 08:30 - 10:30
Email	qoababneh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun : 09:30 - 10:30
Room: NG57

Prerequisites

Line Number	Course Name	Prerequisite Type
821151	HSS115CS Programming In C++	Prerequisite / Study
962300	BT230 Basic Biotechnology	Prerequisite / Study
1731150	CS115 Programming In C++	Prerequisite / Study

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand the basic principles of bioinformatics, including its history, importance, and key online resources and databases [1SLO1] [1L7K1]	20%	
Analyze data derived from multiple sequence alignments, demonstrating comprehension of the underlying principles of molecular evolution and phylogeny. [1SLO1, 1SLO2] [1L7S1]	30%	
Demonstrate comprehension of the fundamental concepts of structural bioinformatics, including the analysis of biomolecular structures, as well as the principles governing proteomics and transcriptomics, which involve the study of proteins and transcripts on a large scale [1SLO1, 1SLO2, 1SLO6] [1L7S2]	30%	
Apply bioinformatics tools effectively to analyze genes and their associations with diseases, demonstrating proficiency in utilizing computational methods for biological research. [1SLO1, 1SLO2, 1SLO3] [1L7S3]	20%	

Relationship to Program Student Outcomes (Out of 100%)					
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6
51.67	31.67	6.67			10

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7S3
20	30	30	20

Evaluation	
Assessment Tool	Weight
Midterm	30%
Lab work	30%
Final Exam	40%

Policy	
Attendance Policy	It's your responsibility to attend lectures and exams. It's to your advantage to attend lectures, as most of the exam material will be covered during lecture. All material presented in the lectures will be included in exams. Exceeding 20% absences of the total lecture hours will lead to your removal from the course with a failing grade. Attendance registration will be conducted at the end of each lecture. The instructor will display a QR code that can be scanned using your cellphone or tablet. Please ensure that your cellphone or tablet is functioning properly and that you have internet access to log into your student services.
Course Web Site	e-learning will be used to post general information about the course, as well as distribute lecture slides and any additional material. Please check the course site frequently for updates to the course information and syllabus.

Regrades	If you have questions concerning the grading of your exams, you have only ONE week after the date the exam was made available to you. After one week, all scores are final.
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