

First: University Requirements (Total 27 Credit Hours)

(15 Credit Hours) A. University Compulsory Requirements

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0115001	*Military Science	3	----	
0116101	National Education	3	----	
0116103	Communication Skills(Arabic Language)	3	0116099	
0116107	Communication Skills(English Language 1)	3	0116098	
0116108	Communication Skills(English Language 2)	3	0116107	
0116102	Entrepreneurship, Creativity and leadership	3	----	
0116109	Volunteer Community Service	Zero	----	

*** is compulsory for Jordanian students and arbitrary for non Jordanians

B. The student chooses 12 Credit Hours from the following elective courses

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0116105	Thinking Skills	3	----	
0116133	Human Vision & Civilization	3	---	
0116111	Language skills 1(European Or Oriental)	3	----	
0116112	Language skills 2(European Or Oriental)	3	116111	
0116114	Introduction to Project Management	3	---	
0116140	Human Rights	3	---	
0116143	Legal Culture	3	---	
0116106	Economics Literacy	3	---	
0216104	Digital Culture	3	---	
0216102	Data Analysis Skills	3	---	
0216105	Health Education	3	---	

** Each student is expected to pass an online test evaluating his

proficiency in Arabic and English languages , in addition to
assessing his computer driving skills.

** if the student fails to pass these tests, he is obliged to register in 099 level
courses pre enrolling in more advanced courses

Arabic Language	0116099
English Language	0116098
Computer Skills	0216099

(Total 18 Credit Hours) Second: Faculty requirements

(12 Credit Hours) A. Faculty compulsory requirement

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0216111	Calculus 1	3	----	
0216131	General Physics 1	3	----	
0216141	General Chemistry 1	3	----	
0216151	General Biology 1	3	----	

B. Student choose (6 Credit hours) from the following elective courses

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0216125	Biostatistics	3	0216121	
0216132	General Physics 2	3	0216131	
0216142	General Chemistry 2	3	0216141	
0750115	Programming C++	3	---	

Third: Major Requirements: 87 Credit Hours

A. Compulsory Requirements: 78 Credit Hours

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0216121	Introduction to Probability & Statistics	3	----	
0216143	General Chemistry Lab I	1	0216141 or corequisites	
0240106	General Biology Lab I	1	0216151 or corequisites	
0240107	General biology II	3	0216151	
0240108	General Biology Lab II	1	0240106	
0240216	Microbiology	3	0240107	
0240217	Microbiology Lab	1	0240216 or corequisites	
0240231	Genetics	3	0216099+ 0240107 or corequisites	
0240232	Genetics lab	1	0240231 or corequisites	
0240233	Cell Biology	3	0240107	
0216241	Analytical Chemistry	3	0216141	
0216242	Analytical Chemistry Lab	1	0216241 or corequisites	
0216243	Organic chemistry	3	0216141	
0240282	Introduction to Biotechnology	2	0240107	
0240326	Plant Biotechnology	3	0240282	
0240323	Plant Tissue Culture Lab	1	0240326 or corequisites	
0240333	Molecular Genetics and human Genome	3	0240231	
0240335	Cytogenetics	1	0240231	
0240336	Cytogenetics Lab	1	0240335 or corequisites	
0240338	Immunology Lab	1	0240339 or corequisites	

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0240339	Immunology	2	0240233	
0240343	Biochemistry I	3	0240243	
0240344	Biochemistry Lab I	1	0240343 or corequisites	
0240355	Environmental Biotechnology	2	0240216	
0240356	Environmental Biotechnology Lab	1	0240355 or corequisites	
0240370	Human Cell Biotechnology	2	0240333	
0240386	Molecular Biotechnology	3	0240282	
0240387	Molecular Biotechnology Lab	1	0240386 or corequisites	
0240390	Lab Management and Entrepreneurship in Biotechnology	2	Pass 90 credit hours	
0240394	Seminar and Scientific Writing	1	Pass 90 credit hours and department	
0240418	Microbial biotechnology	2	0240386	
0240419	Microbial biotechnology Lab	1	0240418 or corequisites	
0240442	Pharmaceutical Biotechnology	3	0240343	
0240447	Protein Biotechnology	3	0240343	
0240464	Bioinformatics Lab	2	0240386	
0240470	Animal Biotechnology	2	0240386	
0240472	Animal Tissue culture	1	0240370	
0240482	Applied Molecular Biology	2	0240386	
0240485	Applied Molecular Biology Lab	1	0240482 or corequisites	
0240491	Ethics in Biotechnology	1	Pass 90 credit hours	
0240494	Field Training	3	Pass 90 credit hours and department agreement	

B. Elective Requirements: 9 Credit Hours

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0240316	Diagnostic Microbiology	3	0240216	
0240433	Haematology	2	0240339	
0240434	Haematology Lab	1	0240433 or corequisites	
0240392	Biosafety and Biosecurity	3	0240282	
0240443	Biochemistry II	3	0240343	
0240456	Biotechnology in Molecular Forensics	3	0240386	
0240487	Molecular Diagnostics	3	0240386	
0240488	Special Topics	3	0240386	
0240499	Research Project	3	Pass 90 credit hours and department agreement	