

Science
Biology

Study Program : Bachelor
Study Plan Type : Major
Academic Year : 2022

The requirements to obtain a Bachelor degree is :-

* The minimum requirements to get a Bachelor degree in / Biology / is to pass 132 credit hours, according to this study plan.

* The credit hours are distributed to get a Bachelor degree as follows :-

Number of credit hours	
University Requirements	27.000
Compulsory	18.000
Elective	9.000
Faculty Requirements	21.000
Compulsory	21.000
Specialization Requirments	81.000
Compulsory	60.000
Elective	21.000
Free Courses	3.000
	0.000
Pre-requist Courses	0.000
	0.000
Total :	132.000

University Requirements Credit Hours : 27
Requirement type : Compulsory Credit Hours :18

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2116011101	Arabic Communication Skills	3.000	3.000	0.000	121601099	online learning
2116021101	English Communication Skills	3.000	3.000	0.000	121602099	online learning
2214041117	Military Science	3.000	3.000			online learning
1714041118	National Education	3.000	3.000	0.000		online learning
2114041123	Leadership and Social Responsibility	2.000	2.000	0.000		online learning
2114041124	Entrepreneurship and Innovation	2.000	2.000	0.000		online learning
2114041125	Life Skills	2.000	2.000	0.000		online learning

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1804001128	Cyber Hygiene	3.000	3.000	0.000	110108099	in class
2210031100	digital culture	3.000	3.000	0.000		
1916033201	Italian Language (2)	3.000	3.000	0.000	1716031101	in class
1916034101	Russian Language (1)	3.000	3.000	0.000		online learning
1916034102	Russian Language (2)	3.000	3.000	0.000		
1916034201	Japanese (2)	3.000	3.000	0.000	1716031102	in class
1916035101	Turkish Language (1)	3.000	3.000	0.000		in class
1916036101	Korean Language (1)	3.000	3.000	0.000		in class
1916036102	Korean Language(2)	3.000	3.000	0.000	1916036101	
1916037101	German Language (1)	3.000	3.000	0.000		in class
1916038101	Chinese Language (1)	3.000	3.000			online learning
1916039101	Polish Language (1)	3.000	3.000	0.000		in class
1714041101	University Life of Student	3.000	3.000			online learning
1714041102	Introduction to Psychcology	3.000	3.000			online learning
1714041104	Family and Child Education	3.000	3.000			online learning
1714041107	Citizenship and Human Rights	3.000	3.000			in class
1714041110	Islam Current Issues	3.000	3.000			in class
1714041111	Islamic Thought	3.000	3.000			online learning
1714041112	Jerusalem : Histroy and Civilization	3.000	3.000			in class
1714041113	Citizenship and Human Rights	3.000	3.000	0.000		online learning
1714041114	Histroy and Civilization of Jordan	3.000	3.000			online learning
1714041115	Sociology	3.000	3.000			in class
1714041116	Archaeology and Tourism	3.000	3.000			online learning
1714041120	Economic and Management Science	3.000	3.000			

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1714041121	Law and Ordering of Our Life	3.000	3.000			online learning
1714041122	Principles of Sign Language	3.000	3.000			in class
1714041126	Humanistic Moral and Values Education	3.000	3.000			online learning
1714041127	Conflict Resolution and Accept Others	3.000	3.000			online learning
1714041128	Culutural Heritage in Jordan	3.000	3.000			
1914041130	Integrity Transperancy and anti - Corruption	3.000	3.000	0.000		online learning
1714041193	Palestinian Cause	3.000	3.000			in class
1714041194	Arabic Language and Current Issues	3.000	3.000			online learning
1814041195	Disability and Healthy Community	3.000	3.000			online learning
1814041197	Selected Topics in National Trends	3.000	3.000			
1814041198	Education for Sustainable Development	3.000	3.000			online learning
1814041199	Adjustment and Mental Health	3.000	3.000			online learning
1814041200	Introduction to Education	3.000	3.000			online learning
1914042111	Media Education	3.000	3.000	0.000		online learning
2101081139	Physical Culture	3.000	3.000	0.000		online learning
2201081140	Development and Environment	3.000	3.000	0.000		online learning
0110108104	Energy and its Sources	3.000	3.000	0.000		online learning
0110108113	Biotechnology and Society	3.000	3.000	0.000		online learning
0110108114	Automobile Essentials	3.000	3.000	0.000		
0110108115	Computer Ethics	3.000	3.000	0.000		blended learning
0110108130	Health and Nutrients	3.000	3.000	0.000		online learning
0110108131	Health Education and First Aid	3.000	3.000	0.000		online learning
0110108132	Sport and Health	3.000	3.000	0.000		online learning

University Requirements Credit Hours : 27
Requirement type : Elective Credit Hours :9

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0140108134	Ethics in Natural Science	3.000	3.000	0.000		online learning
0170108135	Reproductive Health	3.000	3.000	0.000		online learning
0140108166	Pharmaceutical Edification	3.000	3.000	0.000		
0121601105	Applied Arabic Language	3.000	3.000			in class
0121602102	Applied English Language	3.000	3.000	0.000		blended learning
0121602103	Technical Translation	3.000	3.000	0.000		blended learning
0141603101	Italian Language	3.000	3.000			in class
0151603102	Japanese Language (Level 1)	3.000	3.000	0.000		in class
0121603201	Spanish Language (1)	3.000	3.000			blended learning

Faculty Requirements Credit Hours : 21
Requirement type : Compulsory Credit Hours :21

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1701081136	General Physics (1)	3.000	3.000	0.000		in class
1701081138	General Chemistry (1)	3.000	3.000	0.000		in class
0110101102	Calculus (2)	3.000	3.000	0.000	110108101	blended learning
0110102102	General Physics (2)	3.000	3.000	0.000	1701081136	in class
0110108101	Calculus (1)	3.000	3.000	0.000		online learning
0110108105	General Biology (1)	3.000	3.000	0.000		in class
0110108112	Computer Programming	3.000	3.000	0.000	(1001103 AND 1001104) OR (110108099 OR 1011100)	blended learning

Specialization Requirments Credit Hours : 81
Requirement type : Compulsory Credit Hours :60

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1801041102	General Biology (2)	3.000	3.000	0.000	110108105	in class
1801041103	General Practical Biology (1)	1.000	0.000	3.000	110108105 synchronous	in class
1801041104	General Practical Biology (2)	1.000	0.000	3.000	1801041102 synchronous AND 1801041103	in class
1801041221	Genetics	3.000	2.000	3.000	1801041102	in class
2201041222	Biochemietry (1)	3.000	2.000	3.000	(1801041102 AND 110103236) OR 110103232	in class
1801041241	General Microbiology	3.000	2.000	3.000	1801041102	in class
1801041251	Plant Biology	4.000	3.000	3.000	1801041102	in class
1801041254	Plant Anatomy	3.000	2.000	3.000	1801041251	in class
1801041263	Invertebrate Biology	3.000	2.000	3.000	1801041102	in class
1801041264	Vertebrate Biology	3.000	2.000	3.000	1801041102	in class
1801041342	Mycology	3.000	2.000	3.000	1801041241	in class
1801041351	Plant Physiology	3.000	2.000	3.000	1801041251	in class
1801041361	Animal Physiology	3.000	2.000	3.000	1801041264	in class
2201041362	Development Biology	2.000	2.000	0.000	1801041264	
1801041363	Immunology	3.000	2.000	3.000	1801041241	in class
1801041364	Practical Developmental Biology	1.000	0.000	3.000	1801041362 synchronous	in class
1801041371	Ecology	4.000	3.000	3.000	1801041264	in class
1801041491	Seminar	1.000	1.000	0.000		in class
1801042231	Cell Biology	2.000	2.000	0.000	110108105	in class
2201042322	Molecular Biology	3.000	3.000	0.000	2201041222 AND 1801042231	
0110103102	General Chemistry (2)	3.000	3.000	0.000	110103101	in class
0110103105	General Chemistry Laboratory	2.000	1.000	3.000	110103102 synchronous	in class
0110103236	Basics of Organic Chemistry	3.000	3.000	0.000	110103101 OR 110103107	in class

Specialization Requirments Credit Hours : 81
Requirement type : Elective Credit Hours :21

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1801041331	Histology	3.000	2.000	3.000	1801041102	
1801041332	Microtechnique	2.000	1.000	3.000	1801041102	blended learning
1801041352	Plant Taxonomy	3.000	2.000	3.000	1801041251	
1801041354	Medicinal Plants	3.000	3.000	0.000	1801041251 OR 1801042252	in class
1801041355	Greenhouse Management	3.000	2.000	3.000	1801041251 OR 1801042252	in class
1801041365	Laboratory Animals	2.000	1.000	3.000	1801041102	blended learning
1801041425	Biochemistry (2)	3.000	3.000	0.000	1801041222	in class
1801041452	Plant Reproductive Biology	3.000	2.000	3.000	1801041251	in class
1801041454	Phycology	3.000	2.000	3.000	1801041102	in class
1801041462	Evolution	3.000	3.000	0.000	1801041102	in class
1801041463	Genetic diversity	3.000	3.000	0.000	2201042322	
1801041464	Animal Behavior	3.000	2.000	3.000	1801041361	
1801041465	Marine Biology	3.000	3.000	0.000	1801041102	in class
1801041466	Hematology	3.000	2.000	3.000	1801041361	in class
1801041467	Parasitology	3.000	2.000	3.000	1801041263	in class
2201041468	Neurophysilogy	3.000	3.000	0.000	1801041361 OR 2201042267	
2201041471	a	3.000	3.000	0.000	1801042321	
1801042233	Practical Cell Biology	1.000	0.000	3.000	1801042231 synchronous	in class
1801042321	Biotechnology	3.000	3.000	0.000	1801041241	in class
1801042341	Applied Microbiology	3.000	2.000	3.000	1801041241	in class
2201042343	Virology	3.000	3.000	0.000	1801041241 AND 2201042322	
1801042353	Economic Botany	3.000	3.000	0.000	1801041251 OR 1801042252	
1801042422	Modeling Biological Systems	2.000	2.000	0.000		in class
2201042425	Preparation of Solutions and Lab Culture Media	3.000	2.000	3.000	110103105 OR 1801041102	

Specialization Requirments Credit Hours : 81
Requirement type : Elective Credit Hours :21

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1801042426	Quality Control	2.000	2.000	0.000	2201041222	in class
1801042427	Experimental Design and Data Analysis	3.000	3.000	0.000		in class
1801042430	Forensic DNA Fingerprinting Techniques	3.000	3.000	0.000	2201042322	in class
1801042468	Cytogenetics	3.000	2.000	3.000	2201042322	in class
2201042477	Bioinformatics	2.000	1.000	3.000	2201042322	
1801042495	Special Topics	3.000	3.000	0.000		online learning
0110102103	General Physics Laboratory (1)	1.000	0.000	3.000	1701081136 synchronous	in class
0110102104	General Physics Laboratory (2)	1.000	0.000	3.000	110102102 synchronous AND 110102103	in class

Courses - Not Allowed To Study Credit Hours : 0
Requirement type : Compulsory Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2210041132	enterepreurship and innovation	2.000	2.000	0.000		online learning

Pre-Requist Courses Credit Hours : 0
Requirement type : Credit Hours :0

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0001001096	Computer Skills Test	0.000	0.000	0.000		in class
0110108099	Computer Skills/ Prerequisite	3.000	3.000	0.000	1001096	online learning
0002110096	Arabic Placement Test	0.000	0.000	0.000		in class
0002120096	English Placement Test	0.000	0.000	0.000		in class
0121601099	Arabic Language / Pre-requisite	3.000	3.000		2110096	online learning
0121602099	English Language / Pre-requisite	3.000	3.000		2120096	online learning

free study materials are (3) credit hours, The student chooses it from any of the courses offered by the university departments.