



**First: University Requirements (Total 27 Credit Hours)
(18 Credit Hours)A. University Obligatory Requirements**

.Course no	Course name	Credit Hours	-Pre requisite	Mark
0111100	Military Science **	3	---	
0111101	National Education	3	---	
0114103	Communication Skills (Arabic Language)	3	0114099	
0115102	Leadership and Social Responsibility	1	---	
0130107	Communication Skills (English Language 1)	3	0130099	
0130108	Communication Skills (English Language 2)	3	0130107	
0170101	Life Skills	1	---	
0330103	Leadership and Innovation	1	---	

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

B. The student chooses 9 Credit Hours from the following elective courses

.Course no	Course name	Credit Hours	-Pre requisite	Mark
0111133	Human Vision & Civilization (1)	3	----	
0140111	Language Skills (1)	3	---	
0140112	Language Skills (2)	3	----	
0170102	Thinking Skills	3	---	
0320104	Economic Culture	3	---	
0330111	Introduction to Project Management	3	---	
0420140	Human Rights	3	---	
0420143	Legal Culture	3	---	
0670101	Development and Environment	3	---	
0750101	Digital Culture	3	---	
0750102	Data Analysis Skills	3	---	
0910102	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. courses pre enrolling in more advanced courses**

**(Total 21 Credit Hours)Second: Faculty requirements
(15 Credit Hours)A. Faculty compulsory requirement**

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0250101	Calculus (1)	3	----	
0250231	Introduction to Probability & Statistics	3	----	
0211101	General Physics (1)	3	----	
0212101	General Chemistry (1)	3	----	
0240101	General Biology (1)	3	----	

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

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0211102	General Physics (2)	3	0211101	
0212103	General Chemistry (2)	3	0212101	
0250233	Biostatistics	3	0250231	
0750115	C++ Programming	3	---	

Third: Major Requirements: 84 Credit Hours

A. Obligatory Requirements: 78 Credit Hours

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0250102	Calculus (2)	3	0250101	
0250202	Calculus (3)	3	0250102	
0250203	Ordinary Differential Equations	3	0250202	
0250232	Probability Theory	3	0250231 + 0250202	
0250241	Linear Algebra (1)	3	0250101	
0250251	Set Theory	3	0250102	
0250262	Modern Euclidean (1) Geometry	3	0250251	
0250302	Calculus (4)	3	0250202	
0250305	Partial Differential Equations	3	0250203	
0250311	Real Analysis	3	0250251	
0250312	Complex Analysis	3	0250311	
0250313	Number Theory	3	0250251	
0250332	Mathematical Statistics	3	0250232	
0250341	Linear Algebra (2)	3	0250241	

.Course no	course name	credit hours	prerequisite	mark
0250352	Graph Theory and Combinatorics	3	0250251	
0250342	Abstract Algebra (1)	3	0250251	
0250371	Numerical Analysis	3	0250203	
0250372	* Computer Aided Math	3	0250203	
0250373	Linear Programming	3	0250241	
0250381	Problem Solving	3	0250311	
0250411	Real Analysis (2)	3	0250311	
0250442	Abstract Algebra (2)	3	0250342	
0250465	Topology	3	0250311	
0250471	Mathematical Modeling	3	0250203	
0250481	Teaching Methods Math	3	0250262	
0250492	Special Topics	3	0250341	

B. Elective Requirements: 6 Credit Hours

.Course no	Course name	Credit Hours	Pre-requisite	Mark
0250333	Applied Probability	3	0250232	
0250444	Matrix Theory	3	0250241	
0250453	History of Math	3	0250313+ 0250262	
0250467	Modern Euclidean Geometry (2)	3	0250262	
0250475	Special Functions	3	0250311	
0250476	Game Theory	3	0250241	

* Theoretical & Practical