Philadelphia University
Faculty of Science
Department of Mathematics
Study Plan for Bachelor's Degree of Mathematics
(132 Credit Hours)

First: University Requirements (Total 27 Credit Hours)

A. University Obligatory Requirements (18 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0111100	Military Science **	3	---	Online
0116101	National Education	3	---	Online
0116102	Leadership and Social Responsibility	1	---	Blended
0116103	Communication Skills (Arabic Language)	3	0114099	Physical
0116104	Life Skills	1	---	Physical
0116107	Communication Skills (English Language 1)	3	0130099	Physical
0116108	Communication Skills (English Language 2)	3	0116107	Physical
0116109	Volunteer work in community service	0	---	Physical
0116110	Leadership and Innovation	1	---	Physical

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

B. University Elective Requirements (9 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0116105	Thinking Skills	3	----	Blended
0116106	Economic Culture	3	---	Blended
0116111	Language Skills (1)	3	----	Blended
0116112	Language skills (2)	3	---	Blended
0116113	Development and Environment	3	---	Blended
0116114	Introduction to Project Management	3	---	Blended
0116133	Human Vision & Civilization	3	---	Blended
0116140	Human Rights	3	---	Blended
0116143	Legal Culture	3	---	Blended
0116144	Introduction to psychology and sociology	3	---	Blended
0216102	Data Analysis Skills	3	---	Blended
0216104	Digital Cilture	3	---	Blended
0216105	Health Education	3	---	Blended

Each student is expected to pass an online test evaluating his proficiency in Arabic and English languages, in adition to assessing his computer driving skills.

Courses pre enrolling in more advanced courses

Second Faculty Requirements (Total 21 Credit Hours)

A. Faculty Compulsary Requirements (15 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0216111	Calculus (1)	3	----	Physical
0216121	Introduction to Probability & Statistics	3	----	Physical
0216131	General Physics (1)	3	----	Physical
0216141	General Chemistry (1)	3	----	Physical
0216151	General Biology (1)	3	----	Physical

B. Faculty Elective Requirements (6 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0216125	Biostatistics	3	0216121	Online
0216132	General Physics (2)	3	0216131	Blended
0216142	General Chemistry (2)	3	0216141	Online
0750115	C++ Programming	3	---	Blended

Third Major Requirements (Total 84 Credit Hours)

A. Obligatory Requirements (78 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0250102	Calculus (2)	3	0216111	Physical
0250202	Calculus (3)	3	0250102	Physical
0250203	Ordinary Differentional Equations	3	0250202 0750099 (or syn.)	Physical
0250232	Propability Theory	3	0216121 0250202	Physical
0250241	Linear Algebra (1)	3	0216111	Physical
0250251	Set Theory	3	0250102	Physical
0250262	Modern Eucliddan Geametry (1)	3	0250251	Physical
0250302	Calculus (4)	3	0250202	Physical
0250305	Partial Differential Equations	3	0250203	Physical
0250311	Real Analysis	3	0250251	Physical
0250312	Complex Analysis	3	0250311	Physical
0250313	Number Theory	3	0250251	Physical
0250332	Mathematical Statistics	3	0250232	Blended
0250341	Linear Algebara (2)	3	0250241	Physical
0250352	Graph Theory and Combinatorics	3	0250251	Blended
0250342	Abstract Algebra (1)	3	0250251	Physical
0250371	Numerical Analysis	3	0250203	Physical
0250372	Computer Aided Math *	3	0250203	Blended
0250373	Linnear Programming	3	0250241	Blended
0250381	Problem Solving	3	0250311	Blended
0250411	Real Analysis (2)	3	0250311	Physical
0250442	Abstract Algebra (2)	3	0250342	Physical
0250465	Topology	3	0250311	Physical
0250471	Mathematical Modeling	3	0250203	Blended
0250481	Teaching Methods Math	3	0250262	Blended
0250492	Special Topics	3	0250341	Blended

* Theoretical and practical

B. Elective Requirements (6 Credit Hours)

Course No	Course Name	Credit Hours	Prerequist	Delivery Method
0250333	Applied Probability	3	0250232	Online
0250444	Matrix Theory	3	0250241	Blended
0250453	History of Math	3	0250313 0250262	Blended
0250467	Modern Euclidean Geometry (2)	3	0250262	Online
0250475	Special Functions	3	0250311	Blended
0250476	Game Theory	3	0250241	Blended