

Study Plan for Department of Mathematics
2019/2020
(135) Credit Hours

First: University Requirements (24 Credit Hours)			
1. Compulsory University Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
01101101	Military Sciences*	3	Jordanian student
01101102	National Education*	3	Jordanian student
01101111	Arabic Language**	3	01100011 Pre
01101112	English Language**	3	01100012 Pre
*Non-Jordanian student has the right to register it or choose one of the courses offered by the university.			
** If the student does not pass the level exams should be take the following courses: Remedial Arabic language (01100011), Remedial English language (01100012), Remedial computer skills (01100051)			
2. Elective University Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
01101103	Traffic Education	3	
01101104	Innovation and Entrepreneurship	3	
01101121	Life Skills	3	
01101131	Islamic Education	3	
01101132	Jerusalem and the Hashemite custodianship	3	
01101141	Sports and Health	3	
01101142	Environment and Society	3	
01101151	Computer Skills	3	01100051 Pre
01101152	Internet and Communication	3	
01101161	Economics System and Concepts	3	
01101171	Psychology and Society	3	
01101172	Modern Language	3	
01101213	Communication Skills in Arabic	3	01101111 Pre
01101214	Communication Skills in English	3	01101112 Pre
01101243	Safety and First Aid	3	
01101281	Scientific Research Methods	3	
01101282	Introduction to Astronomy	3	
03011101	Law in Our Life	3	
03021201	Human Rights	3	
Second: Compulsory Faculty Requirements (21 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
06051211	Programming Fundamentals	3	01100051 Pre
11011101	General Chemistry (1)	3	-
11011281	General Biology	3	-
11021101	General Physics (1)	3	-
11031101	Calculus (1)	3	-
11031141	Statistics and Probabilities	3	11031101 Pre
11031202	Calculus (2)	3	11031101 Pre
Third: Department Requirements (87 Credit Hours)			
1. Compulsory Department Requirements (75 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
11031211	Foundations of Mathematics	3	

11031221	Linear Algebra (1)	3	11031101 Pre
11032103	Calculus (3)	3	11031202 Pre
11032212	Number Theory	3	11031211 Pre
11032164	Ordinary Differential Equations	3	11031202 Pre
11032242	Probability Theory	3	11032103 Pre 11031141 Pre
11032222	Linear Algebra (2)	3	11031221 Pre
11032261	Numerical analysis (1)	3	11031101 Pre 06051211 Pre
11032131	Euclidean and Non-Euclidean Geometry	3	-
11033104	Advanced Calculus	3	11032103 Pre
11033265	Partial Differential Equations	3	11032164 Pre
11032251	Real Analysis (1)	3	11031211 Pre 11031202 Pre
11033152	Complex Analysis	3	11032103 Pre 11032251 Pre
11033162	Numerical Analysis (2)	3	11032261 Pre
11033243	Mathematical Statistics	3	11032242 Pre
11034123	Abstract Algebra (1)	3	11032212 Pre
11033232	General Topology (1)	3	11031211 Pre
11033166	Linear Programming and Applications	3	11032222 Pre
11034163	Mathematical Modeling	3	06051211 Pre
11033253	Real Analysis (2)	3	11032251 Pre
11034224	Abstract Algebra (2)	3	11034123 Pre
11034144	Applied Statistics	3	11033243 Pre
11034167	Applied Mathematics	3	11033265 Pre
08014162	Mathematics Curricula and Teaching Methods	3	4 th level
11034291	Graduation Project	3	Department approval
2. Elective Department Requirements (12 Credit Hours)			
Course	Course Name	Hrs	Prerequisites
11033269	Special Topics in Mathematics	3	Department Approval
11033225	Matrix Theory	3	11031221 Pre
11033254	Special Functions	3	11032164 Pre
11034171	History of Mathematics	3	4 th level
11033168	Graph Theory	3	11031211 Pre
11034233	General Topology (2)	3	11033232 Pre
11034155	Functional Analysis	3	11033253 Pre
Fourth: Free courses(3 credit hours):any university course			