



Study Plan for Bachelor Degree in  
Software Engineering  
(132 Credit Hours)

First: University Requirements (27 Credit Hours)

a- University Compulsory: (15 Credit Hours)

Module No.	Module Name	Credit Hours	Prereq.	Mark
0111100	Military Sciences **	3	----	
0111101	National Education	3	----	
0114101	Arabic Language Skills (1)	3	0114099	
0130101	English Language Skills (1)	3	0130099	
0130102	English Language Skills (2)	3	0130101	
0111000	Student Community Service	0	0130101	

\*\* Compulsory for Jordanian students and elective for Non-Jordanians

b- University Electives: (12 credit hours)

Module No.	Module Name	Credit Hours	Prereq.	Mark
0111112	Introduction to Psychology	3	---	
0111133	Human Thought and Civilization (1)	3	---	
0140111	Language Skills (1)	3	---	
0140112	Language Skills (2)	3	---	
0240152	Environmental Culture	3	---	
0330111	Introduction to Project Management	3	---	
0420140	Human Rights	3	---	
0420143	Legal Culture	3	---	
0610230	Entrepreneurship and Creativity	3	---	
0731102	Social Networking Skills	3	---	
0780101	Connectivity & Communications Skills	3	---	
0910102	Health Education	3	---	

Second: Faculty Requirements ( 24 Credit Hours )

Course No.	Course Name	Cr.	Pre-req.	Mark
0721223	Object Oriented Programming *	3	0750114	
0721240	Computing Ethics	3	0731110	
0731110	Introduction to Systems and Information Technology	3	---	
0731213	Introduction to World Wide Web Programming	3	0750114	
0750113	Programming Fundamentals (1) *	3	---	
0750114	Programming Fundamentals (2) *	3	0750113	
0750215	Visual Programming *	3	0721223	
0780110	Introduction to Internet and Web technology	3	---	

Third: Major Requirements (81 Credit Hours )

a. Compulsory Modules (42 Credit Hours )

Course No.	Course Name	Cr.	Pre-req.	Mark
0721111	Software Engineering Fundamentals	3	0731110	
0721224	Data Structures*	3	0721223	
0721222	Software Modelling	3	0721111	
0721230	Software Requirements	3	0721111	
0721320	Software Architecture	3	0721222	
0721322	System Analysis and Design	3	0721320	
0721351	Database Management	3	0731221	
0721330	Software Production	3	0721222	
0721331	Software Project Management	3	0721330	
0721424	Software Development and Documentation	3	0721322	
0721433	Software Testing	3	0721322	
0721350	Computer Organization and Architecture	3	0750230	
0721438	Practical Training	3	90 hours	
0721448	Research Project (1)*	1	90 hours	
0721449	Research Project (2)*	2	0721448	

b. Compulsory Supplementary Requirements (30 Credit Hours)

Course No.	Course Name	Cr.	Pre-req.	Mark
0250101	Differentiation and Integration (1)	3	---	
0750120	Discrete Mathematics	3	0750099	
0250231	Introduction to Statistics and Probabilities	3	---	
0750230	Digital Logic Design	3	0731110	
0750272	Numerical Analysis	3	0750114	
0750323	Algorithms	3	721224	
0750335	Operating Systems	3	0721350	
0731221	Database Fundamentals*	3	0721223	
0731340	Fundamentals of Computer Networks*	3	0721224	
0250241	Linear Algebra(1)	3	0250101	

c. Elective Modules ( 9 Credit Hours )

Course No.	Course Name	Cr.	Pre-req.	Mark
0721439	Special Topics in Software Engineering	3	0721322	
0721410	Secure Software Construction	3	0721432	
0721421	Software Re-Engineering	3	0721420	
0721422	Web Software Engineering	3	0731213	
0721423	Graphical User Interface Design*	3	0721322	
0721432	Software Quality Engineering	3	0721433	
0721324	Advanced Object Oriented Programming*	3	0721223	

\*All major modules include not less 25% Practical work, Tutorial, Lab., and Assignment

All students must apply for exam in Arabic, English language and computer