



Study Plan for Bachelor's Degree in Software Engineering

The Bachelor's Degree in Software Engineering awarded at Princess Sumaya University for Technology after the successful completion of 132 Credit Hours distributed as follows:-

University Requirements (27 CHs)

1. Compulsory Requirements (18 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11100	Computer Skills (Remedial)	0		
31021	Arabic Language Communication Skills (Remedial)	0		
31022	English Language Communication Skills (Remedial)	0		
31112	Arabic Language Communication Skills	3	31021	
31122	English Language Communication Skills	3	31022	
31151	National Education	3		
31160	Leadership and Societal Responsibility	0		
31251	Military Science	3		
31254	Entrepreneurship and Innovation	3	Finish 60 Credit Hours	
31374	Life Skills	3	Finish 60 Credit Hours	

2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20251	History of Science	3		
31100	Sports and Health	3		
31130	Foreign languages	3		
31152	Arabic Islamic Civilization	3		
31211	Arabic Literature	3	31112	
31252	Governance and Development	3		
31260	Human Rights	3		
31261	Introduction to Politics and Economic Science	3		
31264	Introduction To Psychology	3		
31272	Development and Environment	3		
31311	Scientific Research Methods	3		
31351	Contemporary Issues in the Arab World	3		
31352	Jerusalem : History and Facts	3		
31362	Philosophy and Critical Thinking	3		

School Requirements (25 CHs)

1. Compulsory Requirements (25 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11102	Introduction to Computer Science	3		
11103	Structured Programming	3	11102	
11151	Structured Programming Lab	1		11103
20132	Calculus (1)	3		



Study Plan for Bachelor's Degree in Software Engineering

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20133	Calculus (2)	3	20132	
20134	Discrete Mathematics (1)	3		
20200	Technical Writing and Communication Skills	3	31112,31122	
20233	Statistical Methods	3		
20234	Linear Algebra	3	20133	

Program Requirements (80 CHs)

1. Compulsory Requirements (68 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11206	Object Oriented Programming	3	11103	
11212	Data Structures and Introduction to Algorithms	3	11206,20134	
11253	Object Oriented Programming Lab	1		11206
11313	Algorithms Design and Analysis	3	11212	
11323	Database Systems	3	11212	
11335	Operating Systems	3	11212,22342	
11354	Database Systems Lab	1		11323
11355	Operating Systems Lab	1		11335
11435	Data Communications & Computer Networks	3	11212	
11449	Computer and Society	1	Finish 70 Credit Hours	
12242	Webpage Design and Internet programming LAB	1		12243
12243	Webpage Design and Internet programming	3	11206	
12343	Visual Programming	3	11206	
13211	Introduction to Software Engineering	3	11206	
13212	Software Construction	3	11212,13211	
13324	System Analysis And Design	3	11212,13211	
13325	Software Requirements Analysis	3	13324	
13326	Software Engineering Approaches to Human Computer Interaction	3	12343	
13327	Software Design and Architecture	3	13212	
13391	Practical Training	3	Finish 90 Credit Hours	
13428	Software Quality Assurance and Testing	3	13212	
13432	Software Project Management	3	13324	
13435	Database Management System	3	11323	
13491	Graduation Project 1	1	Finish 90 Credit Hours	
13493	Graduation Project 2	2	13491	
22241	Digital Logic Design	3		
22342	Computer Organization and Assembly Language	3	22241	

2. Elective Requirements (12 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11347	Electronic Business	3	12243	
11428	Artificial Intelligence	3	11212	
11447	Wireless Networks and Applications	3	11435	



Study Plan for Bachelor's Degree in Software Engineering

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11464	Information Systems Security	3	11435	
12348	Multimedia Systems	3	11206	
13334	Mobile Application Development	3	11206	
13335	Server Side Programming	3	11323,12243	
13393	Special Topic in Software Engineering (1)	3		
13413	Formal Methods in Software Engineering	3	13324	
13424	Software Re-Engineering	3	13212	
13427	Software Documentation	3	13324	
13431	Advanced Topics in Programming	3	13212	
13433	Risk Management for Software intensive projects	3	13324	
13434	Secure Software Development	3	11323,12243	
13494	Special Topic in Software Engineering (2)	3		
20333	Numerical Analysis	3	20133	