

## Study Plan for Bachelor's Degree in Computer Science for year 2021 - 2022

The Bachelor's Degree in Computer Science 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		
31374	Life Skills	3		

#### 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 Computer Science for year 2021 - 2022

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 (71 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	
11316	Theory of Computation	3	11206,20135	
11323	Database Systems	3	11212	
11335	Operating Systems	3	11212,22342	
11354	Database Systems Lab	1		11323
11355	Operating Systems Lab	1		11335
11391	Practical Training	3	Finish 90 Credit Hours	
11435	Data Communications & Computer Networks	3	11212	
11449	Computer and Society	1	Finish 70 Credit Hours	
11464	Information Systems Security	3	11435	
11493	Graduation Project 1	1	Finish 90 Credit Hours	
11494	Graduation Project 2	2	11493	
12242	Webpage Design and Internet programming LAB	1		12243
12243	Webpage Design and Internet programming	3	11206	
12343	Visual Programming	3	11206	
13477	Software Engineering	3	11323	
14330	Artificial Intelligence	3	11212	
20135	Discrete Math (2)	3	20134	
20141	Physics (1)	3		
20142	Physics (2)	3	20141	
20147	Physics Lab	0		20141
20333	Numerical Analysis	3	20133	
20336	Principles of Probability	3	20133,20233	
22241	Digital Logic Design	3		
22342	Computer Organization and Assembly Language	3	22241	
22541	Computer Architecture	3	22342	

#### 2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11343	Special Topic in Computer Science (1)	3		



### Study Plan for Bachelor's Degree in Computer Science for year 2021 - 2022

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11344	Advanced Topics in Internet Programming	3	12243	
11347	Electronic Business	3	12243	
11417	Compiler Design and Programming Languages	3	11316	
11436	Distributed Systems	3	11435	
11446	Special Topic in Computer Science (2)	3		
11447	Wireless Networks and Applications	3	11435	
12273	Computer Graphics	3	11212	
12324	Human Computer Interaction	3	11206	
12348	Multimedia Systems	3	11206	
12446	Digital Image Processing	3	11212	
13324	System Analysis And Design	3	11425	
13334	Mobile Application Development	3	11206	
13432	Software Project Management	3	13324	
20332	Operations Research	3	20133	