

**Study Plan for Bachelor Degree in
Computer Science
for year 2019-2020**

The Bachelor 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 (12 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
11100	Computer Skills (Remedial)	0		
31019	Arabic Language (Remedial)	0		
31029	English Language (Remedial)	0		
31111	Arabic Language	3	31019	
31121	English Language	3	31029	
31151	National Education	3		
31153	Introduction to Society, Technology and Environment Protection	0		
31154	Community Service	0		
31251	Military Science	3		

2. Elective Requirements (15 CHs)

2.1. Elective University Requirements (General) (6 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
20251	History of Science	3		
20252	Arab Islamic Scientific Heritage	3		
31100	Sports and Health	3		
31152	Arabic Islamic Civilization	3		
31161	Introduction to Library Science	3		
31211	Arabic Literature	3	31111	
31252	Governance and Development	3		
31261	Introduction to Politics and Economic Science	3		
31262	Introduction to Educational Science	3		
31271	Environmental Science	3		
31351	Contemporary Issues in the Arab World	3		
31352	Jerusalem : History and Facts	3		
31361	Introduction to Philosophy	3		
31371	Health Education	3		

2.2. Elective University Requirements (Scientific, Practical) (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent
31130	Foreign languages	3		
31255	Entrepreneurship for Business	3	Finish 60 Credit Hours	
31311	Scientific Research Methods	3		
31373	21st Century Skills	3	Finish 60 Credit Hours	

School Requirements (25 CHs)

Study Plan for Bachelor Degree in Computer Science for year 2019-2020

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		
20133	Calculus (2)	3	20132	
20134	Discrete Mathematics (1)	3		
20200	Technical Writing and Communication Skills	3	31111,31121	
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	



**Study Plan for BachelorDegree in
Computer Science
for year 2019-2020**

2. Elective Requirements (9 CHs)

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