

**Princess Sumaya University for Technology – King Hussein School for
Computing Sciences
Curriculum – 2017/2018
Computer Science Department – Bachelor Degree**

1- University Requirements: (27 Credit Hours)

a- Mandatory Courses (12 credit hours):

Course Number	Course Title	Credit Hours	Prerequisite
11100	Computer Skills (Remedial) **	0	-
31010	Arabic Language Placement Test	0	-
31019	Arabic Language (Remedial) **	0	-
31020	English Language Placement Test	0	-
31029	English Language (Remedial) **	0	-
31111	Arabic Language	3	31019
31121	English Language	3	31029
31151	National Education (Jordanian Student)*	3	-
31251	Military Science (Jordanian Students Only)	3	-

* Non Jordanian Students may choose to register in this course or register in any other elective course.

**Students who pass the placement test successfully are exempted from taking the remedial course. Otherwise, they MUST take the remedial course.

b. Elective Courses: (15 credit hours)

Course Number	Course Title	Credit Hours	Prerequisite
11201	Geographic Information Systems (GIS)***	3	-
31152	Arabic and Islamic Civilization*	3	-
31161	Introduction to Library Science**	3	-
31171	History of Science***	3	-
31211	Arabic Literature*	3	31111
31261	Introduction to Politics and Economics**	3	-
31262	Introduction to Educational Science**	3	-
31271	Environmental Science***	3	-
31351	Current Issues in the Arab World*	3	-
31352	Jerusalem: History and Facts*	3	-
31361	Principles of Psychology**	3	-
31371	Health Education***	3	-
31372	Business Skills	3	60 Cr. Hrs.

Remark: The 15 credit hours must cover 3 areas: Humanistic Science*; Social and Economy**; Science, Technology, Agriculture and Health***. At least one subject or at most two subjects MUST be selected from each area.

1- College Requirements (25 credit hours):

Course Number	Course Title	Credit Hours	Prerequisite
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	-
20141	Physics (1)	3	-
20233	Statistical Methods	3	-
31263	Technical Writing Communication Skills	3	31121, 31111

*Co-requisite

**These courses MUST be registered in the first year.

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2- Department Requirements (80 credit hours):

a. Mandatory Courses (74 credit hours to be chosen from the following list):

Course Number	Course Title	Credit Hours	Prerequisite
11206	Object Oriented Programming	3	11103
12343	Visual Programming	3	11206
11212	Data Structures and Introduction to Algorithms	3	11206, 20134, 11253
12241	Webpage Design and Internet Programming	3	12343
12252	Webpage Design and Internet Programming Lab	1	12241*
11253	Object Oriented Programming Lab	1	11206*
11313	Algorithms Design and Analysis	3	11212, 20135
11316	Theory of Computation	3	11103, 20134
11323	Database Systems	3	11212
13323	Systems Analysis and Design	3	11212
11335	Operating Systems	3	11212
11354	Database Systems Lab.	1	11323*
11355	Operating Systems Lab.	1	11335*
11391	Practical Training	3	90 Cr. Hrs.**
13211	Introduction to Software Engineering	3	13323
11435	Data Communications and Computer Networks	3	11335
11447	Wireless Networks and Applications	3	11435, 20334
11449	Computer and Society	1	90 Cr. Hrs.
11464	Information Systems Security	3	11212
11493	Graduation Project 1	3	90 Cr. Hrs.
11494	Graduation Project 2		11493
22241	Digital Logic Design	3	-
22342	Computer Organization and Assembly Language	3	22241
22541	Computer Architecture	3	22342
20142	Physics (2)	3	20141
20334	Applied Probability	3	20133
20234	Linear Algebra	3	20133
20135	Discrete Math (2)	3	20134
20333	Numerical Analysis	3	20133, 20234

*Co-requisite.

**2 months, full-time training with at least 6 hrs/day.

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b. Elective Courses (6 credit hours):

Course Number	Course Title	Credit Hours	Prerequisite
11344	Advanced Topic in Internet Programming	3	11323
11343	Special Topic in Computer Science (1) **	3	Set by Dept.
11347	Electronic Business	3	11241
11417	Compiler Design and Programming Languages	3	11316
11428	Artificial Intelligence	3	11212
11436	Distributed Systems	3	11435
12446	Digital Image Processing	3	11206
11446	Special Topic in Computer Science (2) **	3	Set by Dept.
12273	Computer Graphics	3	11103,20133
12324	Human-Computer Interaction	3	11323,12348
12348	Multimedia Systems	3	11206
20332	Operation Research	3	20133
33325	Project Management	3	80 Cr. Hrs.

***Topics to be offered in 11343 and 11464 will be set by the department at the beginning of the semester*