



Al-Ahliyya Amman University
Faculty of Information Technology
(132) Credit Hours
Study Plan (2019-2020) for Bachelor of
Science in Computer Science

First: University Requirements: (24) Credit Hours

1) Compulsory University Requirements (12) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Exception
A0161101	Arabic Communication Skills	3	A0161100	-
A0161201	English Communication Skills	3	A0161200	-
A0161301	National Education	3	-	-
A0161401	Military Sciences	3	-	Non- Jordanian

2) Elective University Requirements (12) Credit Hours

A) Group 1 (6) Credit Hours

Course No	Course Title	Cr.H	Exception
A0161501	Islamic Culture	3	-
A0161601	Contemporary Issues	3	-
A0161701	History of Jordan and Palestine	3	-
A0161703	Archaeology and Tourism in Jordan	3	Marketing Students
A0161901	Media and Public Relations	3	-
A0411601	Legal Education and Human Rights	3	Law Students

B) Group 2 (6) Credit Hours

Course No	Course Title	Cr.H	Exception
A0161602	Critical Thinking Skills	3	-
A0161603	Entrepreneurship Skills	3	-
A0161801	Environment and Public Safety	3	-
A0181100	Sport and Health	3	Physical and Health Education Students
A0612303	Community Health	3	Nursing Students
A0871103	Principles of Renewable Energy	3	Electrical Engineering Students

Community Service requirement is a mandatory requirement (10) hours of service

*** This course must be successfully passed in order to advance to any of the succeeding courses**

Second: Faculty Compulsory Requirements (21) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0111101	Mathematics (1)	3	-	-
A0311101	Discrete Mathematics	3	-	-
A0311201	Introduction to Information Technology	3	-	A0331700
A0311202	Introduction to Programming *	3	A0311201	-
A0311203	Introduction to Programming Lab	1	-	A0311202
A0312101	Data Structures *	3	A0312201	-
A0312201	Object Oriented Programming	3	A0311202	-
A0312202	Object Oriented Programming Lab	1	-	A0312201
A0314501	Ethical and Professional Issues in Computing	1	Pass 80 Cr. Hrs.	-

Third: Major Requirements (87) Credit Hours

A) Compulsory Major Requirements (48) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0311301	Digital Logic Design	3	A0311101	-
A0312203	Visual Programming	3	A0312201	-
A0312301	Computer Organization and Architecture	3	A0311301	-
A0312401	Fundamentals of Databases	3	A0311202	-
A0312402	Fundamentals of Databases Lab	1	-	A0312401
A0312403	Systems Analysis and Design	3	A0312401	-
A0313101	Algorithms Analysis and Design	3	A0312101	-
A0313201	Internet Applications Development (1)	3	A0312401	-
A0313202	Internet Applications Development (1) Lab	1	-	A0313201
A0313203	Internet Applications Development (2)	3	A0313201	-
A0313301	Operating Systems	3	A0312301	-
A0313401	Theory of Computation	3	A0312101	-
A0313402	Advanced Databases	3	A0312401	-
A0314201	Mobile Applications Development	3	A0312101	-
A0314202	Mobile Applications Development Lab	1	-	A0314201
A0314301	Parallel Computing and Distributed Systems	3	A0313301	-

A0314401	Programming Languages Design	3	A0313401	-
A0314601	Practical Training	0	Pass 90 Cr. Hrs. + A0313203	-
A0314602	Graduation Project (1)	1	Pass 90 Cr. Hrs. + A0313203	-
A0314603	Graduation Project (2)	2	A0314602	-

B: Ancillary Major Requirements (30) Credit Hours.

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0111103	Statistics and Probability	3	A0111101	-
A0111201	General Physics (1)	3	-	-
A0111207	Electronic Physics	2	A0111201	-
A0111208	Electronic Physics (Practical)	1	-	A0111207
A0112101	Linear Algebra	3	A0111101	-
A0113101	Numerical Analysis	3	A0111101	-
A0332501	Introduction to Software Engineering	3	A0312201	-
A0334503	Software Project Management	3	A0312403	-
A0341301	Networks and Information Security Essentials	3	A0311201	-
A0342301	Computer Networks	3	A0341301	-
A0342303	Cybersecurity	3	A0342301	-

C) Elective Major Requirements (9) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0313204	Computer Graphics	3	A0312101	-
A0313403	Introduction to Data Science	3	A0312401	-
A0314203	Artificial Intelligence	3	A0312101	-
A0314402	Selected Topics in Computer Science	3	A0312101	-
A0333506	Human Computer Interaction	3	A0312403	-
A0342304	Introduction to Linux System	3	A0341301	-
A0343301	Cloud Computing and Security	3	A0342301	-
A0343504	Ethical Hacking	3	A0342303	-
A0344301	Internet of Things and Security	3	A0313201	-

Fourth: Remedial Requirements (to a student who has not passed the exam level)

Course No	Course Title	Cr.H	Prerequisite
A0161100	Remedial Arabic Language	3	-
A0161200	Remedial English Language	3	-
A0331700	Remedial Computer Skills	3	-



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