



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

**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	-
A0161901	Media and Public Relations	3	-
A0411601	Legal Education and Human Rights	3	Law Students
A0161703	Archaeology and Tourism in Jordan	3	Marketing 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 (33) Credit Hours**

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0332501	Introduction to Software Engineering *	3	A0312201	-
A0333501	Software Requirements Engineering	3	A0332501	-
A0333502	Software Design	3	A0332501	-
A0333503	Software Design Lab	1	-	A0333502
A0333504	Software Construction and Documentation	3	A0333502	-
A0333505	Software Construction and Documentation Lab	1	-	A0333504
A0333506	Human Computer Interaction	3	A0312403	-
A0334501	Software Testing and Quality Assurance	3	A0333501	-
A0334502	Software Testing and Quality Assurance Lab	1	-	A0334501
A0334503	Software Project Management	3	A0333501	-
A0334504	Software Architecture	3	A0333504	-
A0334601	Practical Training	0	Pass 90 Cr. Hrs + A0333502	-
A0334602	Graduation Project (1)	3	Pass 90 Cr. Hrs + A0333502	-
A0334603	Graduation Project (2)	3	A0334602	-

**B) Ancillary Major Requirements (45) Credit Hours**

Course No	Course Title	Cr. H	Prerequisite	Concurrent
A0111103	Statistics and Probability	3	A0111101	-
A0113101	Numerical Analysis	3	A0111101	-
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 Lab (1)	1	-	A0313201
A0313203	Internet Applications Development (2)	3	A0313201	-
A0313301	Operating Systems	3	A0312301	-
A0313402	Advanced Databases	2	A0312401	-
A0314201	Mobile Applications Development	3	A0312101	-
A0314202	Mobile Applications Development Lab	1	-	A0314201
A0341301	Networks and Information Security Essentials	3	A0311201	-

**C) Elective Major Requirements (9) Credit Hours**

Course No	Course Title	Cr. H	Prerequisite	Concurrent
A0313403	Introduction to Data Science	3	A0312401	-
A0333507	Secure Software Development	3	A0333504	-
A0334505	Selected Topics in Software Engineering	3	A0333502	-
A0334506	Component-based Software Development	3	A0333502	-
A0334507	Web Services Programming	3	A0334504	-
A0342301	Computer Networks	3	A0341301	-
A0342304	Introduction to Linux System	3	A0341301	-
A0343301	Cloud Computing and Security	3	A0312301	-
A0344301	Internet of Things and Security	3	A0313201	-

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

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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