

Al-Ahliyya Amman University
Faculty of Engineering
Department of Computer Engineering
(160) Credit Hours
Study Plan 2019-2020



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) First group (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
A0571401	Archaeology and tourism in Jordan	3	Marketing students

B) Second group (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 Education Students
A0612303	Community Health	3	Nursing Students
A0871103	Principles of Renewable Energy	3	Electrical Engineering Students

Second: Faculty Compulsory Requirements: (37) Credit Hours

Course no.	Course Title	Cr. H.	Prerequisite	Exception
A0111101	Mathematics (1)	3	-	-
A0111102	Mathematics (2)	3	A0111101	-
A0111201	General Physics (1)	3	-	-
A0111202	General Physics (2)	3	A0111201	-
A0111203	General Physics Lab.	1	-	A0111201
A0111301	General Chemistry	3	-	-
A0112101	Linear Algebra	3	A0111102	-
A0811201	Computer Skills (Engineering)	3	A0331700	-
A0811202	Engineering Workshop	1	-	-
A0812201	Communication Skills and Ethics	3	A0161201	-
A0831201	Engineering Drawing	2	-	-
A0832101	Differential Equations	3	*A0111102	-
A0832102	Engineering Statistics	3	A0111101	-
A0833101	Numerical Analysis	3	A0112101	-

Community Service is a Mandatory Graduation Requirement (10 hours of service).

* This prerequisite must be successfully passed before registering the course

Third: Major Requirements: (99) Credit Hours

A) Compulsory Major Requirements: (66) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0812101	Discrete Mathematics	3	*A0111101	-
A0812301	Object Oriented Programming	3	*A0811201	-
A0812302	Object Oriented Programming Lab.	1	-	A0812301
A0812303	Data structure	3	*A0812301	-
A0812401	Digital Logic Circuits	3	A0111101	-
A0812402	Digital Logic Circuits Lab.	1	-	A0812401
A0813201	Engineering economy and management	3	A0111101	-
A0813301	Database systems	3	A0812301	-
A0813302	Software Engineering	3	A0812303	-
A0813401	Advanced Digital Design	3	*A0812401	-
A0813402	Microprocessors	3	A0812401	-
A0813404	Microprocessors Lab.	1	-	A0813402
A0813501	Computer Networks	3	A0812401	-
A0814301	Algorithms	3	A0812301	-
A0814401	Embedded Systems	3	A0813402	-
A0814402	Embedded Systems Lab.	1	-	A0814401
A0814404	Computer Architecture and Organization	3	A0812401	-
A0814405	Computer Architecture and Organization Lab.	1	-	A0814404
A0814406	Operating Systems	3	A0812401	-
A0814601	Field Training	3	Pass (115) Cr.H.	-
A0815301	Intelligent Systems and Neural Networks	3	A0814301	-
A0815401	Distributed Systems and Parallel Processing	3	A0814406	-
A0815501	Computer Networking Protocols	3	*A0813501	-
A0815502	Computer Networks Lab.	1	-	A0815501
A0815503	Networks and Data Protection Systems	3	A0815501	-
A0815601	Graduation Project (1)	1	Pass field training *A0814601	-
A0815602	Graduation Project (2)	2	A0815601	-

B) Ancillary Major Requirements: (24) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0822502	Electronics	3	A0872303	-
A0823401	Signals and Systems	3	A0872303	-
A0823402	Communications Systems	3	A0823401	-
A0823502	Electronics Lab	1	-	A0822502
A0823503	Digital Electronics	3	A0822502	-
A0823504	Digital Electronics Lab	1	-	A0823503
A0872303	Electrical Circuits	3	A0111202	-
A0872304	Electrical Circuits Lab.	1	A0872303	-
A0873501	Machines and Electrical Power	3	A0872303	-
A0874501	Control Systems	3	A0823401	-

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0814302	Mobile Applications Development	3	A0812303	-
A0814303	Requirements Engineering	3	A0813302	-
A0814602	Selected Topics in Computer Engineering	3	Department Approval	-
A0815303	Cloud Computing	3	A0815401	-
A0815302	Systems Quality Assurance and Testing	3	A0813302	-
A0815201	Engineering Project Management	3	A0814401	-
A0835402	Medical Digital Image Processing	3	A0823401	-
A0834401	Data Mining and Pattern Recognition	3	A0812301	-
A0834403	Bioinformatics	3	A0813301	-

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

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



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