

Al-Ahliyya Amman University
Faculty of Engineering
Department of Computer Engineering
(160) Credit Hours
Study Plan 2014-2015



First: University Requirements: (27) Credit Hours

1) Compulsory University Requirements: (12) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Exception
0121181	English Communication Skills (1)	3	0171100	-
0161101	Arabic Communication Skills (1)	3	0161100	-
0161200	Military Sciences	3	-	Non-Jordanians
0161201	National Education	3	-	-

2) Elective University Requirements: (15) Credit Hours

A) Humanities: (6) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Exception
0152102	English Communication Skills (2)	3	0121181	-
0161300	Islamic Culture	3	-	-
0162102	Arabic Communication Skills (2)	3	0161101	-
0162301	History of Jordan and Palestine	3	-	-
0411100	Human Rights	3	-	Law Students

B) Social and Economic Sciences: (6) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Exception
0132200	Psychology and Life	3	-	Psychology Students
0143301	Entrepreneurship	3	-	-
0161301	Islam and Life	3	-	-
0162302	Media and Public Relations	3	-	-
0561500	Tourism and Archaeology	3	-	Hotels & Tourism Students

C) Sciences, Technology, and Health: (3) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Exception
0161303	Sport and Health	3	-	-
0162305	Environmental and Public Safety	3	-	-
0162306	Science and Life	3	-	-

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

* This prerequisite must be successfully passed before registering the course

Second: Faculty Compulsory Requirements: (33) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0111101	Mathematics (1)	3	-	-
0111202	General Physics (1)	3	-	-
0111203	General Physics (2)	3	0111202	-
0111204	General Physics Lab.	1	-	0111202
0112102	Mathematics (2)	3	0111101	-
0811201	Computer Skills (Engineering)	3	0331200	-
0812101	Technical Writing	1	0121181	-
0812102	Engineering Ethics	1	0121181	-
0832103	Engineering Mathematics (1)	3	0112102	-
0832104	Engineering Mathematics (2)	3	0112102 *	-
0832107	Engineering Statistics	3	0111101	-
0833105	Numerical Analysis	3	0112102	-
0871101	Engineering Workshop	1	-	-
0871102	Engineering Drawing	2	-	-

Third: Major Requirements: (100) Credit Hours

A) Compulsory Major Requirements: (61) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0812202	Object Oriented Programming	3	0811201	-
0812203	Object Oriented Programming Lab.	1	-	0812202
0812401	Digital Logic Circuits	3	-	-
0812402	Digital Logic Circuits Lab.	1	-	0812401
0813204	Computer Aided Design	1	0811201	-
0813403	Advanced Digital Design	3	0812401 *	-
0813404	Advanced Digital Design Lab.	1	-	0813403
0813405	Microprocessors	3	0812401 *	-
0813406	Microprocessors Lab.	1	-	0813405
0814104	Discrete Mathematics	3	0111101	-
0814105	Engineering Numerical Applications	1	0833105	-
0814206	Algorithms	3	0812202	-
0814301	Computer Networks	3	0812401	-
0814407	Embedded Systems	3	0812401	-
0814408	Embedded Systems Lab.	3	-	0814407
0814409	Computer Organization & Design	3	0812401	-
0814410	Computer Architecture	3	0812401	-
0814411	Computer Design Lab.	1	-	0814410
0814901	Field Training	3	Pass (110) Cr.H.	-
0815207	Database Systems	3	0812202	-
0815302	Computer Networking Protocols	3	0814301 *	-
0815303	Computer Networks Lab.	1	-	0814301
0815412	Operating Systems	3	0812401	-
0815413	Intelligent Systems and Neural Networks	3	0814206	-

...Cont'd Compulsory Major Requirements

0815414	Distributed Systems and Parallel Processing	3	0815412	-
0815415	Distributed Systems and Parallel Processing Lab.	1	-	0815414
0815902	Graduation Project (1)	1	Pass (120) Cr.H.	-
0815903	Graduation Project (2)	2	0815902	-

B) Ancillary Major Requirements: (33) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0822205	Electronics	3	0872301	-
0823101	Probability and Stochastic Processes	3	0832107	-
0823206	Electronics Lab.	1	-	0822205
0823207	Digital Electronics	3	0822205	-
0823208	Digital Electronics Lab.	1	-	0823207
0823501	Signals and Systems	3	0112102	-
0823502	Analog Communications	3	0112102	-
0342102	Data Structure	3	0812202	-
0874106	Engineering Economy and Management	3	0111101	-
0872301	Electric Circuits (1)	3	0112102	-
0872302	Electric Circuits (2)	3	0872301 *	-
0872303	Electric Circuits Lab.	1	-	0872302
0874312	Control Systems	3	0823501	-

C) Elective Major Requirements: (6) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
0814208	Digital Image Processing	3	0823501	-
0814209	Software Engineering	3	0814206	-
0814416	Microprocessor Systems	3	0813405	-
0815107	Selected Topics in Computer Engineering	3	Department Approval	-
0815304	Computers and Networks Security	3	0815302	-
0815417	Fuzzy Logic	3	0815413	-
0824504	Digital Communications	3	0823502	-
0824507	Digital Signal Processing	3	0823501	-

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

Course no.	Course Title	Cr.H.	Prerequisite
0161100	Arabic Language (Remedial)	3	-
0171100	English Language (Remedial)	3	-
0331200	Computer Skills (Remedial)	3	-



Ref.: Deans' Council Session (09/2014-2015) Decision No: (06)
 Date: 4,6/11/2014

