

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



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-Jordanians

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	Sport students
A0612303	Community Health	3	Nursing students
A0871103	Principles of Renewable Energy	3	Electrical Eng. students

Second: Faculty Compulsory Requirements (37) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
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	Communications Skills & professional Ethics	3	A0161201	-
A0831201	Engineering Drawing	2	-	-
A0832101	Differential Equations	3	*A0111102	-
A0832102	Engineering Statistics	3	A0111101	-
A0833101	Numerical Analysis	3	A0112101	-

Third: Major Requirements: (99) Credit Hours

(A) Compulsory Major Requirements: (81) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0862301	Engineering Geology	3	A0161201	-
A0862302	Engineering Materials Science	3	A0862301	-
A0862303	Surveying	3	A0111101	-
A0862304	Surveying Lab.	1	-	A0862303
A0862401	Statics	3	A 0111201	-
A0862402	Strength of Materials	3	*A0862401	-
A0862403	Dynamics	3	A0862401	-
A0862501	Concrete Technology	3	A0862301	-
A0862502	Concrete Technology Lab.	1	-	A0862501
A0863501	Structural Analysis (1)	3	A0862402	-
A0863502	Structural Analysis (2)	3	A0863501	-
A0863601	Hydraulics	3	A0833603	-
A0863602	Fluid Mechanics and Hydraulics Lab.	1	-	A0863601
A0863701	Traffic and Transportation Engineering	3	A0862303 *A0832102	-
A0863702	Traffic and Transportation Engineering Lab.	1	-	A0863701
A0863703	Geometric and Highway Design	3	A0863701	-
A0863801	Geotechnical Engineering	3	*A0862402	-
A0863802	Geotechnical Engineering Lab.	1	-	A0863801
A0864301	Civil Engineering Drawing	2	*A0831201 A0864501	-
A0864501	Reinforced Concrete Design (1)	3	A0863501 A0862501	-
A0864502	Design of Steel Structures	3	A0863502	-
A0864601	Engineering Hydrology	3	A0863601	-
A0864602	Water, Environmental and Sanitary Engineering	3	A0863601	-
A0864603	Environmental and Sanitary Engineering Lab.	1	-	A0864602
A0864701	Pavement Design	3	A0863701	-
A0864702	Pavement Design Lab.	1	-	A0864701
A0864801	Foundation Engineering	3	A0863801 A0864501	-
A0864901	Specifications, Contracts, and Quantity Surveying	3	A0864501	-
A0864902	Field Training	3	A0812201 Pass (115) Cr.H	-
A0865501	Reinforced Concrete Design (2)	3	*A0864501 A0863502	-
A0865901	Construction Project Management	3	A0864901	-
A0865902	Graduation Project (1)	1	*A0864902 Pass Field Training	-
A0865903	Graduation Project (2)	2	A0865902	-

(B) Ancillary Major Requirements: (9) Credit Hours

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0111302	General Chemistry Lab	1	-	A0111301
A0813101	Applied Engineering Mathematics	2	A0833101	-
A0813201	Engineering Economy and Management	3	A0111101	-
A0833603	Fluid Mechanics	3	*A0862401	-

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

Course no.	Course Title	Cr.H.	Prerequisite	Co-requisite
A0865502	Bridge Engineering	3	A0864501	-
A0865503	Earthquake Engineering	3	A0865501	-
A0865504	Pre-stressed Concrete	3	A0865501	-
A0865601	Water Resources	3	A0864601	-
A0865602	Irrigation, Drainage, and Dam Engineering	3	A0863601	-
A0865603	Treatment of Liquid and Solid Wastes	3	A0864602	-
A0865701	Pavement Maintenance and Rehabilitation	3	A0864701	-
A0865904	Computer Applications in Civil Engineering	3	A0865501 A0863703	-
A0865905	Selected Topics in Civil Engineering	3	Department Approval	-

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

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

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

* This prerequisite must be successfully passed before registering the course



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