

**Engineering**  
**Civil Engineering**

**Study Program : Bachelor**  
**Study Plan Type : Major**  
**Academic Year : 2022**

The requirements to obtain a Bachelor degree is :-

\* The minimum requirements to get a Bachelor degree in / Civil Engineering / is to pass 160 credit hours, according to this study plan.

\* The credit hours are distributed to get a Bachelor degree as follows :-

	Number of credit hours
<b>University Requirements</b>	<b>24.000</b>
<b>Compulsory</b>	<b>18.000</b>
<b>Elective</b>	<b>6.000</b>
<b>Faculty Requirements</b>	<b>33.000</b>
<b>Compulsory</b>	<b>33.000</b>
<b>Specialization Requirments</b>	<b>103.000</b>
<b>Compulsory</b>	<b>88.000</b>
<b>Elective</b>	<b>15.000</b>
<b>Pre-requist Courses</b>	<b>0.000</b>
	<b>0.000</b>
<b>Total :</b>	<b>160.000</b>

**University Requirements Credit Hours : 24**  
**Requirement type : Compulsory Credit Hours :18**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
2116011101	Arabic Communication Skills	3.000	3.000	0.000	121601099	online learning
2116021101	English Communication Skills	3.000	3.000	0.000	121602099	online learning
2214041117	Military Science	3.000	3.000			online learning
1714041118	National Education	3.000	3.000	0.000		in class
2114041123	Leadership and Social Responsibility	2.000	2.000	0.000		online learning
2114041124	Enterpreneurship and Innovation	2.000	2.000	0.000		online learning
2114041125	Life Skills	2.000	2.000	0.000		online learning

**University Requirements Credit Hours : 24**  
**Requirement type : Elective Credit Hours :6**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1804001128	Cyber Hygiene	3.000	3.000	0.000	110108099	in class
2210031100	digital culture	3.000	3.000	0.000		online learning
2416031102	Spanish Language (2)	3.000	3.000	0.000		
2416031103	French Language (1)	3.000	3.000	0.000		in class
2416031104	French Language (2)	3.000	3.000	0.000		
1916033201	Italian Language (2)	3.000	3.000	0.000	1716031101	online learning
1916034101	Russian Language (1)	3.000	3.000	0.000		online learning
1916034102	Russian Language (2)	3.000	3.000	0.000		
1916034201	Japanese (2)	3.000	3.000	0.000	1716031102	blended learning
1916035101	Turkish Language (1)	3.000	3.000	0.000		in class
1916036101	Korean Language (1)	3.000	3.000	0.000		in class
1916036102	Korean Language(2)	3.000	3.000	0.000	1916036101	
1916037101	German Language (1)	3.000	3.000	0.000		online learning
1916038101	Chinese Language (1)	3.000	3.000			online learning
1916039101	Polish Language (1)	3.000	3.000	0.000		in class
1714041101	University Life of Student	3.000	3.000			online learning
1714041102	Introduction to Psychology	3.000	3.000			online learning
1714041104	Family and Child Education	3.000	3.000			online learning
1714041107	Citizenship and Human Rights	3.000	3.000			online learning
1714041110	Islam Current Issues	3.000	3.000			online learning
1714041111	Islamic Thought	3.000	3.000			online learning
1714041112	Jerusalem : Histroy and Civilization	3.000	3.000			in class
1714041113	Citizenship and Human Rights	3.000	3.000	0.000		online learning

**University Requirements Credit Hours : 24**  
**Requirement type : Elective Credit Hours :6**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Course Type
1714041114	Histry and Civilization of Jordan	3.000	3.000			online learning
1714041115	Sociology	3.000	3.000			in class
1714041116	Archaeology and Tourism	3.000	3.000			online learning
1714041120	Economic and Management Science	3.000	3.000			blended learning
1714041121	Law and Ordering of Our Life	3.000	3.000			online learning
1714041122	Principles of Sign Language	3.000	3.000			in class
1714041126	Humanistic Moral and Values Education	3.000	3.000			online learning
1714041127	Conflict Resolution and Accept Others	3.000	3.000			online learning
1714041128	Culutral Heritage in Jordan	3.000	3.000			
1914041130	Integrity Transperancy and anti - Corruption	3.000	3.000	0.000		online learning
1714041193	Palestinian Cause	3.000	3.000			online learning
1714041194	Arabic Language and Current Issues	3.000	3.000			online learning
1814041195	Disability and Healthy Community	3.000	3.000			online learning
1814041197	Selected Topics in National Trends	3.000	3.000			
1814041198	Education for Sustainable Development	3.000	3.000			online learning
1814041199	Adjustment and Mental Health	3.000	3.000			online learning
1814041200	Introduction to Education	3.000	3.000			online learning
1914042111	Media Education	3.000	3.000	0.000		online learning
2101081139	Physical Culture	3.000	3.000	0.000		online learning
2201081140	Development and Environment	3.000	3.000	0.000		online learning
2401081141	Oral and Dental Healthcare	3.000	3.000	0.000		
0110108104	Energy and its Sources	3.000	3.000	0.000		online learning
0110108113	Biotechnology and Society	3.000	3.000	0.000		online learning

**University Requirements Credit Hours : 24**  
**Requirement type : Elective Credit Hours :6**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
0110108114	Automobile Essentials	3.000	3.000	0.000		
0110108115	Computer Ethics	3.000	3.000	0.000		blended learning
0110108130	Health and Nutrients	3.000	3.000	0.000		online learning
0110108131	Health Education and First Aid	3.000	3.000	0.000		online learning
0110108132	Sport and Health	3.000	3.000	0.000		online learning
0140108134	Ethics in Natural Science	3.000	3.000	0.000		online learning
0170108135	Reproductive Health	3.000	3.000	0.000		online learning
0140108166	Pharmaceutical Edification	3.000	3.000	0.000		
0121601105	Applied Arabic Language	3.000	3.000			in class
0121602102	Applied English Language	3.000	3.000	0.000		blended learning
0121602103	Technical Translation	3.000	3.000	0.000		blended learning
0141603101	Italian Language	3.000	3.000			in class
0151603102	Japanese Language ( Level 1 )	3.000	3.000	0.000		blended learning
0121603201	Spanish Language (1)	3.000	3.000			online learning

**Faculty Requirements Credit Hours : 33**  
**Requirement type : Compulsory Credit Hours :33**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110101102	Calculus (2)	3.000	3.000	0.000	110108101	blended learning
0110101201	Calculus (3)	3.000	3.000	0.000	110101102	blended learning
0110101203	Ordinary Differential Equations (1)	3.000	3.000	0.000	110101102	blended learning
0110102101	General Physics (1)	3.000	3.000	0.000		
0110102102	General Physics (2)	3.000	3.000	0.000	1701081136	in class
0110102103	General Physics Laboratory (1)	1.000	0.000	3.000	1701081136 synchronous	in class
0110103107	Basics of General Chemistry	3.000	3.000	0.000		
0110103108	Basics of General Chemistry Laboratory	1.000	0.000	3.000	110103107 synchronous OR 1701081137 synchronous	in class
0110108101	Calculus (1)	3.000	3.000	0.000		blended learning
0110400101	Engineering Workshop	1.000	0.500	2.000		blended learning
0110400102	Computer Programming	3.000	3.000	0.000	110108099	blended learning
0110400201	Manual Engineering Drawing	2.000	1.000	3.000		in class
0110400202	Computer Aided Engineering Drawing	1.000	0.000	3.000	110400201	in class
0110400203	Ethics and Communication Skills	3.000	3.000	0.000	111405110 OR 121602101	blended learning

**Specialization Requirments Credit Hours : 103**  
**Requirement type : Compulsory Credit Hours :88**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
1704001303	Numerical Analysis	3.000	3.000	0.000	( 110101203 ) AND ( 110400102 OR 110108112 )	in class
2104011212	Structural Mechanics	3.000	3.000	0.000	110401211	in class
1804011231	Introduction to Physical Geology	3.000	2.000	3.000	1701081137	in class
2104011315	Structural Analysis	3.000	3.000	0.000	2104011212	in class
1804011336	Geotechnical Engineering	3.000	3.000	0.000	1804011231	in class
2104011337	Building Materials	3.000	3.000	0.000	110103107 AND 2104011212 synchronous	in class
2104011346	Construction Project Management	3.000	3.000	0.000	2104011337	in class
2104011365	Surveying	3.000	3.000	0.000	110101201 AND 110400202	in class
2104011366	Surveying Lab	1.000	0.000	3.000	2104011365 synchronous	in class
2104011367	Transportaion and Engineering Planning	3.000	3.000	0.000	2104011365	in class
2104011368	Highway Engineering and Design	3.000	3.000	0.000	2104011367	in class
2104011466	Pavement Materials and Design	3.000	3.000	0.000	2104011337	in class
2104011468	Traffic Engineering	3.000	3.000	0.000	2104011368	in class
2004011500	Practical Training	3.000	0.000	0.000	110400203	in class
2104021330	Strength of Materials Lab	1.000	0.000	3.000	( 2104051312 OR 2104011212 ) OR 2104021230	in class
2104031302	Engineering Economy	2.000	2.000	0.000	110101102	in class
0110401211	Statics	3.000	3.000	0.000	110102101 AND 110108101	in class
0110401338	Geotechnical Engineering Lab.	1.000	0.000	3.000	110401336 synchronous	in class
0110401339	Building Materials Lab.	1.000	0.000	3.000	110401337 synchronous	in class
0110401348	Construction Contracts Administration	3.000	3.000		110401337	in class
0110401356	Hydraulics	3.000	3.000		110402310	in class
0110401358	Fluid Mechanics and Hydraulics Lab.	1.000	0.000	3.000	110401356 synchronous	in class
0110401421	Reinforced Concrete (1)	3.000	3.000		110401337 AND 110401315	in class

**Specialization Requirments Credit Hours : 103**  
**Requirement type : Compulsory Credit Hours :88**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0110401422	Reinforced Concrete (2)	3.000	3.000		110401421	in class
0110401425	Steel Structure	3.000	3.000		110401315	in class
0110401435	Foundation Engineering	3.000	3.000		110401336	in class
0110401454	Engineering Hydrology	2.000	2.000		110402310	in class
0110401455	Wastewater Engineering	3.000	3.000		110401356	in class
0110401456	Environmental Engineering	3.000	2.000	3.000	110401455	in class
0110401467	Highway Engineering lab.	1.000	0.000	3.000	110401466 synchronous	in class
0110401598	Graduation Project (1)	1.000		3.000		blended learning
0110401599	Graduation Project (2)	2.000		6.000	110401598	blended learning
0110402310	Fluid Mechanics (1)	3.000	3.000		110101203	in class
0110403242	Statistics and Probabilities	3.000	3.000		110101102	in class
0110406260	Applied Mathematics	3.000	3.000	0.000	110101203	in class



**Specialization Requirments Credit Hours : 103**  
**Requirement type : Elective Credit Hours :15**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
2104011514	Structural Load and Systems	3.000	3.000	0.000	110401421 AND 110401425	
2104011521	Reinforced Concrete (3)	3.000	3.000	0.000	110401422	
2104011522	Advanced topics in steel structures	3.000	3.000	0.000	110401425	
2104011524	Bridge Engineering	3.000	3.000	0.000	110401513 AND 110401422	
2104011526	Advanced Concrete Technology	3.000	3.000	0.000	2104011337 AND 110401339	blended learning
1804011532	Advanced Foundation Engineering	3.000	3.000	0.000	110401435	in class
1804011533	Slope Stability and Earth Retaining Structures	3.000	3.000	0.000	110401435	in class
2104011546	Automation in construction management	3.000	3.000	0.000	2104011346	
2104011551	Hydraulic Structures	3.000	3.000	0.000	110401356	
2104011554	Water and Wastewater Treatment	3.000	3.000	0.000	110401455	
2104011563	Pavement Management Systems	3.000	3.000	0.000	2104011466	in class
2104011564	Traffic Crashes & Analysis	3.000	3.000	0.000	2104011468	
2104011568	Advanced Pavement Materials	3.000	3.000	0.000	2104011466	
0110401513	Computer Applications in Structural Engineering	3.000	3.000		110401315	blended learning
0110401523	Pre-stressed Concrete	3.000	3.000		110401422	blended learning
0110401525	Introduction to Earthquake Engineering	3.000	3.000		110401422	blended learning
0110401531	Soil Stabilization and Ground Reinforcement	3.000	3.000		110401336	blended learning
0110401541	Construction Planning & Scheduling	3.000	3.000		110401346	blended learning
0110401542	Construction Methods	3.000	3.000		110401337	blended learning
0110401543	Construction Cost Analysis and Estimating	3.000	3.000		110401346	in class
0110401545	Building Construction	3.000	3.000		110401421	in class
0110401556	Solid Waste Management	3.000	3.000		110401455	blended learning
0110401595	Special Topics in Civil Engineering	3.000	3.000	0.000		blended learning

**Courses - Not Allowed To Study Credit Hours : 0**  
**Requirement type : Credit Hours :0**

<b>Course Number</b>	<b>Course Name</b>	<b>Credit Hours</b>	<b>Theoretical</b>	<b>Practical</b>	<b>Pre - Requisite</b>	<b>Cours e Type</b>
0110108112	Computer Programming	3.000	3.000	0.000	( 1001103 AND 1001104 ) OR ( 110108099 OR 1011100 )	blended learning

**Pre-Requist Courses Credit Hours : 0**  
**Requirement type : Credit Hours :0**

Course Number	Course Name	Credit Hours	Theoretical	Practical	Pre - Requisite	Cours e Type
0001001096	Computer Skills Test	0.000	0.000	0.000		in class
0110108099	Computer Skills/ Prerequisite	3.000	3.000	0.000	1001096	online learning
0002110096	Arabic Placement Test	0.000	0.000	0.000		in class
0002120096	English Placement Test	0.000	0.000	0.000		in class
0111405098	Arabic Language / Pre-requisite	3.000	3.000	0.000	2110096	
0111405099	English Language/ pre-requisite	3.000	3.000	0.000	2120096	

free study materials are (3) credit hours, The student chooses it from any of the courses offered by the university departments.