

# Study Plan- Department of Civil Engineering

The B.Sc. degree in Civil Engineering requires the fulfillment of 163 Credit Hours as shown in Table (1)

Requirements	Compulsory Credit Hours	Elective Hours	Credit	Total
University Requirements	12	15		27
Faculty Requirements	29	-		29
Supporting Courses	6	-		6
Department Requirements	92	9		101
<b>Total</b>	<b>139</b>	<b>24</b>		<b>163</b>

## II: Second: Faculty Requirements(29Credit hours)

Course No.	Course title	Credit Hours	Prerequisite
0301101	Calculus (1)	3	--
0301102	Calculus (2)	3	0301101
0302101	General Physics (1)	3	-
0302111	Physics Laboratory (1)	1	0302101 or concurrent
0302102	General physics 2	3	0302101
0302112	Physics Laboratory (2)	1	0302102 or concurrent
0303101	General Chemistry	3	--
0303103	General Chemistry Laboratory	1	or 0303101 concurrent
0306110	Computer programming 1	3	--
0902203	Engineering drawing	3	--
0901127	Engineering workshops	1	--
0902401	Technical Writing	1	--

0902362	Engineering Economy	3	--
Total		29	

**VI: Department Requirements:(107 Credit Hours),**

They are shown in the two following tables, Compulsory and Elective lists:

**a. Compulsory Courses, ( 92 Cr. Hrs)**

Course No.	Course title	Credit Hours	Prereq
0902152	Surveying 1	3	--
0902154	Surveying lab 1	1	0902152 or concurrent
0902201	Statics	3	0301102
0902202	Geology	3	--
0902211	Concrete Technology	3	--
0902212	Dynamics	3	0902201
0902213	Concrete Technology lab	1	0902211 or concurrent
0902232	Strength of Materials	3	0902201
0902311	building of Materials	3	0902232
0902312	Structural analysis 2	3	0902315
0902313	Materials lab	1	0902311 or concurrent
0902314	Reinforced concrete 1	3	0902211
0902315	Structural analysis 1	3	0902232
0902331	Soil mechanics	3	0902202
0902333	Soil mechanics lab	1	0902331 or concurrent
0902341	Fluid Mechanics	3	0902212
0902342	Hydraulics and hydrology	3	0902341
0902344	Hydraulics and hydrology lab	1	0902342 or concurrent
0902411	Steel Structure	3	0902315
0902413	Reinforced concrete 2	3	0902314
0902415	Civil drawing	1	0902314
0902421	Highway Engineering	3	0902152
0902422	Highway and asphalt lab	1	0902421 or concurrent
0902424	TransportationEngineering	3	0902421
0902431	Foundation engineering	3	0902331
0902441	Waste water and sanitary Engineering	3	0902341
0902452	Surveying 2	3	0902152
0902454	Surveying lab 2	1	0902452 or concurrent
0902462	Construction Management	3	0902362
0902511	Prestressed and precast concrete	3	0902314
0902521	Traffic Engineering	3	0902424
0902522	Airport Engineering	3	0902421
0902523	Highway drawing	1	0902421
0902541	Environmental Engineering	3	0902441
0902561	Quantity surveying and specification	3	0902314

0902591	Graduation Project 1	2	**
0902592	Graduation Project 2	3	0902591
Total		92	

### b) Elective Courses: (9 Cr. Hrs.)

A minimum of (9) Credit Hours of Coursework are required and to be chosen from the following courses:

Course Number	Course Title	Cr. Hours	Prerequisite
0902513	Computer Applications in Civil Engineering	3	0306212 +0902413
0902515	Bridge Engineering	3	0902511
0902517	Advanced steel structure	3	0902411
0902525	Public transportation engineering	3	0902421
0902543	Water resources	3	0902342
0902551	Remote Sensing	3	090252
0902581	Special Topics in Civil Engineering	3	Dep .approve

### III: Supporting Courses: (6 credit hours)

They are shown in the list below

Course No.	Course title	Credit hours	Prerequisite
0301284	Numerical techniques for Engineering	3	0301102
0301279	Applied statistics for engineering	3	0301102
Total		6	

### Field Engineering Training

Student should start field training after finishing a minimum of 100 Credit Hours of his study, for a period of 8 weeks in Jordan, or 6 weeks in other countries. Training should be in one of the accredited Engineering Consultants.