



**Dhofar University**

**College of Engineering**

**Department of Civil and Environmental Engineering**

**Bachelor of Science in Civil Engineering  
Plan of Study**



**September 2025**

## Bachelor Study Plan



### 1- Program Statistics by Course Category

Course Category	No. of Courses	Credit Hours	Percentage of Total Credit Hours
University Requirements	9	27	19.56%
College Requirements	11	28	20.29%
Program Core Requirements	31	74	53.6%
Program Elective Courses	3	9	6.5%
<b>Total</b>	<b>54</b>	<b>138</b>	<b>100%</b>

### 2- Classification of Requirements

#### 2.1 University Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
ARAB 101	Academic Writing in Arabic	3	FPE 103C / FPEL 100	-
ENGL 101	Basic Academic English	3	FPE 103C	-
ENGL 102E	English for Engineering and Sciences I	3	ENGL 101	-
ENGL 203E	English for Engineering and Sciences II	3	ENGL 102E / ENGL 102C	-
ENGL 204	Advanced English for Academic Purposes and Research	3	ENGL 203E	-
ENGL 305	Advanced English Language and Communication Skills	3	ENGL 204	-
ENTR 200	Entrepreneurship: Innovation and Creativity	3	ENGL 203E	-
MATH 199	Calculus I	3	FPE 103C + FPM 101A + FPM 102B	-
SOCS 102	Omani Society	3	FPE 103C + FPEL 100	-
<b>Total Credits</b>		<b>27</b>		

#### 2.2 College Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CIVE 400	Practical Training	0	Complete 90 Credit Hours Successfully	

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
EECE 130	Computers and Programming I	3	< FPE 103C + < FPM 102B + < FPT 102B	
ENGR 100	Introduction to Engineering	3	< FPE 103C + < FPM 102B + < FPT 102B	
ENGR 110	Engineering Workshop	1	< FPE 103C + < FPM 101A + < FPM 102B	
ENGR 300	Engineering Economy	3	< ENGR 100 + < MATH 199	
MATH 200	Calculus II	3	< MATH 199	
MATH 205	Calculus III	3	< MATH 200	
MATH 210	Differential Equations	3	< MATH 200	
MATH 250E	Probability and Statistics	3	<= MATH 200	
MATH 335	Mathematics for Science and Engineering	3	< MATH 205 + < MATH 210	
PHYS 170	Fundamentals of Physics I	3		
<b>Total Credits</b>		<b>28</b>		

### 2.3 Program Major (Compulsory) Requirements

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CHEM 140	Chemistry I	3	FPE 103C + FPM 102B + FPT 102B	CHEM 130
CHEM 140L	Introductory Chemistry Laboratory	1	CHEM 140	CHEM 130L
CIVE 210	Statics	3	PHYS 170 + ENGR 100 + MATH 199	-
CIVE 213	Strength of Materials	3	CIVE 210	MECH 276
CIVE 215	Engineering Geology	3	PHYS 170 + ENGR 100	-

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CIVE 221	Construction Materials	3	CIVE 213	-
CIVE 221L	Construction Materials Laboratory	1	CIVE 221	-
CIVE 230	Geotechnical Engineering	3	CIVE 213	-
CIVE 230L	Geotechnical Engineering Laboratory	1	CIVE 230	-
CIVE 241	Fluid Mechanics	3	MATH 200 + CIVE 210	-
CIVE 241L	Fluid Mechanics Laboratory	1	CIVE 241	-
CIVE 250	Structural Analysis I	3	CIVE 210	CIVE 310
CIVE 250L	Structural Analysis Laboratory	1	CIVE 250	-
CIVE 265	Surveying and GPS	3	MATH 200	-
CIVE 265L	Surveying and GPS Laboratory	1	CIVE 265	-
CIVE 325	Concrete I	3	CIVE 250 + CIVE 221	CIVE 225
CIVE 331	Steel Design	3	CIVE 213 + CIVE 250	-
CIVE 335	Professional Practice & Ethics	2	-	-
CIVE 340	Engineering Hydrology	3	CIVE 241	-
CIVE 345	Numerical Methods	3	-	-
CIVE 350	Environmental Engineering	3	CIVE 340	-
CIVE 361	Transportation Engineering	3	CIVE 265	CIVE 360
CIVE 401	Final Year Project I	0	-	-
CIVE 402	Final Year Project II	3	CIVE 401	-
CIVE 420	Concrete II	3	CIVE 325	-
CIVE 451	Water and Wastewater Treatment	3	CIVE 241 + CHEM 140	-
CIVE 451L	Water and Wastewater Treatment Laboratory	1	CIVE 451	CIVE 451

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CIVE 470	Highway Design	3	CIVE 361	-
CIVE 470L	Highway Engineering Laboratory	1	CIVE 470	CIVE 470
CIVE 480	Construction Management	3	CIVE 325 + CIVE 221	-
PHYS 170L	Introductory Physics Laboratory	1	PHYS 170	PHYS 170
PHYS 210	Fundamentals of Physics II	3	PHYS 170 / MATH 200	-
<b>Total Credits</b>		<b>74</b>		

#### 2.4 Program Elective Courses

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CIVE 201	Building Drawings	3	MATH 199	-
CIVE 405	Renewable Energy in Construction	3	PHYS 170 + CIVE 221	-
CIVE 410	Structural Analysis II	3	CIVE 250	-
CIVE 416	Special Topics	3	-	-
CIVE 430	Foundation Engineering	3	CIVE 230	-
CIVE 440	Hydraulics and Laboratory	3	CIVE 241 + CIVE 241L	-
CIVE 460	Highway Engineering	3	CIVE 361	-
CIVE 485	Specifications and Cost Estimation	3	CIVE 325 + CIVE 221	-
CIVE 510	Bridges	3	CIVE 420 + CIVE 410 + CIVE 331	-
CIVE 511	Advanced Structural Analysis	3	CIVE 410	-
CIVE 520	Plain Concrete	3	CIVE 221	-
CIVE 522	Prestressed Concrete	3	CIVE 420	-
CIVE 530	Applied Foundation Engineering	3	CIVE 430	-
CIVE 532	Soil and Site Improvement	3	CIVE 230	-
CIVE 540	Hydraulic Structures	3	CIVE 440	-
CIVE 541	Surface Water Hydrology	3	CIVE 340	-
CIVE 542	Groundwater Hydrology	3	CIVE 340	-

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
CIVE 550	Methods of Environmental Sampling and Analysis	3	CIVE 350 + CIVE 451	-
CIVE 553	Water and Sewage Works Design	3	CIVE 350 + CIVE 451	-
CIVE 554	Solid Waste Management I	3	CIVE 350	-
CIVE 560	Pavement Design	3	CIVE 361	-
CIVE 561	Urban Transportation Planning I	3	CIVE 361	-
CIVE 562	Traffic Engineering	3	CIVE 361	-
CIVE 570	Introduction to Geographic Information Systems	3	CIVE 265	-
CIVE 590	Structural Dynamics	3	CIVE 250	-
<b>Total Credits</b>		<b>73</b>		

### 2.5 General Elective Courses

Course Code	Course Title	Credit Hours	Prerequisite	Co-requisite
<b>Total Credits</b>				

### 3- Study Plan

Year 1				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
<i>Fall</i>				
ENGL 101	Basic Academic English	3	FPE 103C	U
MATH 199	Calculus I	3	FPE 103C + FPM 101A + FPM 102B	U

EECE 130	Computers and Programming I	3	FPE 103C + FPM 102B + FPT 102B	C
ENGR 100	Introduction to Engineering	3	FPE 103C + FPM 102B + FPT 102B	C
PHYS 170	Fundamentals of Physics I	3	-	M
<b>Total Credits</b>		<b>15</b>		
<i>Spring</i>				
ARAB 101	Academic Writing in Arabic	3	FPE 103C / FPEL 100	U
ENGL 102E	English for Engineering and Sciences I	3	ENGL 101	U
MATH 200	Calculus II	3	MATH 199	C
ENGR 110	Engineering Workshop	1	FPE 103C + FPM 101A + FPM 102B	C
CHEM 140	Chemistry I	3	FPE 103C + FPM 102B + FPT 102B	M
CHEM 140L	Introductory Chemistry Laboratory	1	CHEM 140	M
PHYS 170L	Introductory Physics Laboratory	1	PHYS 170	M
SOCS 102	Omani Society	3	FPE 103C + FPEL 100	U
<b>Total Credits</b>		<b>18</b>		
<i>Summer</i>				
-		-	-	-
<b>Total Credits</b>		<b>—</b>		

Year 2				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
<i>Fall</i>				
ENGL 203E	English for Engineering and Sciences II	3	ENGL 102E / ENGL 102C	U
MATH 205	Calculus III	3	MATH 200	C
MATH 250E	Probability and Statistics	3	MATH 200	C
PHYS 210	Fundamentals of Physics II	3	PHYS 170 / MATH 200	M
CIVE 210	Statics	3	PHYS 170 + ENGR 100 + MATH 199	M
CIVE 215	Engineering Geology	3	PHYS 170 + ENGR 100	M
<b>Total Credits</b>		<b>18</b>		
<i>Spring</i>				
ENGL 204	Advanced English for Academic Purposes and Research	3	ENGL 203E	U
MATH 210	Differential Equations	3	MATH 200	C
ENGR 300	Engineering Economy	3	ENGR 100 + MATH 199	C
CIVE 213	Strength of Materials	3	CIVE 210	M
CIVE 241	Fluid Mechanics	3	MATH 200 + CIVE 210	M
CIVE 265	Surveying and GPS	3	MATH 200	M
<b>Total Credits</b>		<b>18</b>		
<i>Summer</i>				
-		-	-	-
<b>Total Credits</b>		<b>—</b>		

Year 3				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
<i>Fall</i>				
ENGL 305	Advanced English Language and Communication Skills	3	ENGL 204	U
ENTR 200	Entrepreneurship: Innovation and Creativity	3	ENGL 203E	U
CIVE 250	Structural Analysis I	3	CIVE 210	M
CIVE 221	Construction Materials	3	CIVE 213	M
CIVE 230	Geotechnical Engineering	3	CIVE 213	M
CIVE 241L	Fluid Mechanics Laboratory	1	CIVE 241	M
CIVE 265L	Surveying and GPS Laboratory	1	CIVE 265	M
<b>Total Credits</b>		<b>17</b>		
<i>Spring</i>				
MATH 335	Mathematics for Science and Engineering	3	MATH 205 + MATH 210	C
CIVE 250L	Structural Analysis Laboratory	1	CIVE 250	M
CIVE 221L	Construction Materials Laboratory	1	CIVE 221	M
CIVE 230L	Geotechnical Engineering Laboratory	1	CIVE 230	M
CIVE 331	Steel Design	3	CIVE 213 + CIVE 250	M
CIVE 340	Engineering Hydrology	3	CIVE 241	M
CIVE 345	Numerical Methods	3	-	M
CIVE 361	Transportation Engineering	3	CIVE 265	M
<b>Total Credits</b>		<b>18</b>		
<i>Summer</i>				
CIVE 400		Practical Training	0	-
<b>Total Credits</b>		<b>0</b>		

Year 4				
Course Code	Course Title	Credit Hours	Prerequisite	University/ College/Major/Elective requirements
<i>Fall</i>				
CIVE 325	Concrete I	3	CIVE 250 + CIVE 221	M
CIVE 335	Professional Practice & Ethics	2	-	M
CIVE 350	Environmental Engineering	3	CIVE 340	M
CIVE 401	Final Year Project I	0	-	M
CIVE 451	Water and Wastewater Treatment	3	CIVE 241 + CHEM 140	M
CIVE 470	Highway Design	3	CIVE 361	M
Elective Course I	Program Elective Course I	3	According to selected elective course	E
<b>Total Credits</b>		<b>17</b>		
<i>Spring</i>				
CIVE 420	Concrete II	3	CIVE 325	M
CIVE 402	Final Year Project II	3	CIVE 401	M
CIVE 451L	Water and Wastewater Treatment Laboratory	1	CIVE 451	M
CIVE 470L	Highway Engineering Laboratory	1	CIVE 470	M
CIVE 480	Construction Management	3	CIVE 325 + CIVE 221	M
Elective Course II	Program Elective Course II	3	According to selected elective course	E
Elective Course III	Program Elective Course III	3	According to selected elective course	E
<b>Total Credits</b>		<b>17</b>		
<i>Summer</i>				
-		-	-	-
<b>Total Credits</b>				
<b>Total 138</b>				