



Study Plan

Degree : Bachelor Faculty : Jubail Industrial College Plan Hrs.: 128
 Semester : 451 Department : Civil Engineering Plan Type : Major
 Edition : 3 Gender : Both
 Major : 1 -1-103 Civil Engineering

Council Session: Deanship Session : Faculty Session : Dept Session:
 Council Date: Deanship Date: Faculty Date: Dept Date :

Group Type : Compulsory 1

First							
code	course name	H	G	L	H	requisite	Yrl
CHEM 111	General Chemistry I	4				-	-
ENGL 119	Academic Writing	3				-	-
IAS 111	Arabic Language Foundation	2				-	-
MATH 111	Calculus I	4				-	-
PE 111	Physical Education I	1				-	-
PHYS 111	General Physics I	4				MATH 111 - / C	-
Total							18

Second							
code	course name	H	G	L	H	requisite	Yrl
CE 121	Computer Graphics	3				-	-
CE 122	Statics	3				PHYS 111 - / P	-
CE 123	Geology for Engineers	2				-	-
IAS 121	Islamic Culture	2				-	-
MATH 121	Calculus II	4				MATH 111 - / P	-
PHYS 121	General Physics II	4				MATH 121 - / C PHYS 111 - / P	-
Total							18

Third							
code	course name	H	G	L	H	requisite	Yrl
CE 211	Structural Mechanics I	3				CE 122 - / P	-
CE 212	Engineering Fluid Mechanics	3				CE 122 - / P MATH 121 - / P	-
CE 213	Surveying	3				CE 121 - / P	-
CS 110	Computer Programming	3				-	-
MATH 211	Calculus III	3				MATH 121 - / P	-
MECH 221	Dynamics	3				CE 122 - / P	-
Total							18

Fourth							
code	course name	H	G	L	H	requisite	Yrl
CE 221	Environmental Engineering Principles	4				CHEM 111 - / P	-

Group Type : Compulsory 1

Fourth							
code	course name	H	G	L	H	requisite	Yrl
CE 222	Structural Materials	4				CE 211 - / P	-
CE 223	Structural Analysis I	3				CE 211 - / P	-
CE 224	Geotechnical Engineering I	4				CE 123 - / P CE 211 - / P	-
ENGL 129	Professional Communication	3				ENGL 119 - / P	-
Total							18

Fifth							
code	course name	H	G	L	H	requisite	Yrl
CE 311	Engineering Hydrology I	3				CE 212 - / P	-
CE 312	Reinforced Concrete I	3				CE 222 - / P CE 223 - / P	-
CE 318	Transportation Engineering	4				CE 213 - / P MECH 221 - / P	-
CE 319	Foundation of Earth Structures Design	3				CE 224 - / P	-
IAS 212	Professional Ethics in Islam	2				IAS 121 - / P	-
MATH 222	Differential Equations and Linear Algebra	3				MATH 211 - / P	-
Total							18

Sixth							
code	course name	H	G	L	H	requisite	Yrl
BUS 481	Engineering Economics	3				-	-
CE 321	Construction Estimating and Costing	3				CE 213 - / P CE 312 - / P	-
CE 322	Capstone Design Project I	1				CE 312 - / P	-
ENGL 213	Technical Writing	3				ENGL 129 - / P	-
IAS 221	Arabic Communication Skills	2				IAS 111 - / P	-
MATH 250	Probability and Statistics	3				MATH 121 - / P	-
Total							15

Seventh							
code	course name	H	G	L	H	requisite	Yrl
BUS 482	Business Principles and Practices	3				-	-
CE 413	Capstone Design Project	2				CE 322 - / P	-

P : Pre-requisite

G : GPA level

H : Requisite HRS

C: Co- requisite MC : Mandetory Co--requisi NC: None Co- requisite L : Pre-course Level



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Council Date: **Deanship Date:** **Faculty Date:** **Dept Date :**

Group Type : Compulsory 1

Seventh							
code	course name	H	G	L	H	requisite	Yrl
II							
CE 418	Computational Mechanics	3				MATH 222 - / P	-
CE 419	Construction Methods and Management	3				CE 312 - / P	-
Total							11

Eighth							
code	course name	H	G	L	H	requisite	Yrl
CE 492	Field Training	3				-	-
Total							3

Category : College Requirement

Group Type : Elective 1 (9)

code	course name	H	G	L	H	requisite	Yrl
CE 414	Structural Analysis II	3				CE 223 - / P	-
CE 415	Pavement Engineering	3				CE 318 - / P	-
CE 416	Hydraulic Engineering	3				CE 212 - / P	-
CE 436	Geotechnical Engineering	3				CE 224 - / P	-
II							
Total							12

code	course name	H	G	L	H	requisite	Yrl
CE 420	Soil Stabilization & Site Improvement	3				CE 319 - / P	-
CE 421	Water & Wastewater Engineering	3				CE 212 - / P CE 221 - / P	-
CE 422	Steel Design I	3				CE 223 - / P	-
CE 423	Reinforced Concrete II	3				CE 312 - / P	-
CE 424	Design of Pavement	3				CE 222 - / P	-
CE 425	Traffic Engineering and Road Safety	3				CE 318 - / P	-
CE 439	Seepage Analysis and its Control	3				CE 224 - / P	-
CE 442	Project Surveying	3				CE 213 - / P	-
Total							24