DHOFAR UNIVERSITY

For the Fall 19-20 Semester

Faculty: College of Engineering							138 Cr
Major: BS in Civil Engineering							

Course #	Course Title	Cr	Min Grd	Class Rank	Term	Pr.	Course #	Course Title	Cr	Min Grd	Class Rank	Term	Pr.
Pre University Requirements (Compulsory) 0 Cr							EECE 130	Computers and Programming I [< FPE 103C + < FPM 102B + < FPT 102B]	3	-			
FPE 101A	Foundation Program English-Level 1	0	-				ENGR 100	Introduction to Engineering [< FPE 103C + < FPM 102B + < FPT 102B]	3	-			
FPE 102B	Foundation Program English [< FPE 101A]	0	-				ENGR 105	Engineering Graphics [< FPE 103C]	2	-			
FPE 103C	Foundation Program English [< FPE 101A + < FPE 102B]	0	-				ENGR 110	Engineering Workshop [< FPE 103C + < FPM 101A + < FPM 102B]	1	-			
FPM 100	Pre Foundation Math Program	0	-				ENGR 300	Engineering Economy [< ENGR 100 + < MATH 199]	3	-			
FPM 101A	Foundation Math Program I	0	-				MATH 200	Calculus II [< MATH 199]	3	-			
FPM 102B	Foundation Math Program II [< FPM 101A]	0	-				MATH 205	Calculus III [< MATH 200]	3	-			
FPT 101A	Foundation IT, Program I	0	-				MATH 210	Differential Equations [< MATH 200]	3	-			
FPT 102B	Foundation IT, Program II [< FPT 101A]	0	-				MATH 250E	Probability and Statistics [<= MATH 200]	3	-			
University Requirements (Compulsory) 27 Cr							MATH 335	Mathematics for Science and Engineering [< MATH 205 + < MATH 210]	3	-			
ARAB 101	Academic Writing in Arabic [< FPE 103C / < FPEL 100]	3	-				PHYS 170	Fundamentals of Physics I [<= MATH 199]	3	-			
ENGL 101	Basic Academic English [< FPE 103C]	3	-				**College/Faculty Requirements (Elective) Select 3 Cr (CE: CIVE Science Electives)**						
ENGL 102E	English for Engineering and Sciences I [< ENGL 101]	3	-				CHEE 490	Renewable Energy [< CHEE 275 + < CHEE 330]	3				
ENGL 203E	English for Engineering and Sciences II [< ENGL 102E]	3	-				CHEM 100	Chemistry for the Arts [< FPE 103C + < FPM 102B + < FPT 102B]	3				
ENGL 204	Advanced English for Academic Pur and Res [< ENGL 203E]	3	-				CHEM 140	Chemistry I [< FPE 103C + < FPM 102B + < FPT 102B]	3				
ENGL 305	Advanced English Language and Communication Skills [< ENGL 204]	3	-				CHEM 170	Chemical Principles II [< CHEM 140]	3				
ENTR 200	Entrepreneurship:Innovation and Creativity [< ENGL 203E]	3	-				CHEM 210	Organic Chemistry I [< CHEM 180]	3				
MATH 199	Calculus I [< FPE 103C + < FPM 101A + < FPM 102B]	3	-				CHEM 260	Analytical Chemistry [< CHEM 180]	3				
SOCS 102	Omani Society [< FPE 103C]	3	-				CMPS 105	Introduction to Computer Graphics	3				
College/Faculty Requirements (Compulsory) 30 Cr													
CIVE 400	Practical Training	0	-										

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CMPS 106	Introduction to Web Design	3					MATH 305	Advanced Calculus [< MATH 200]	3				
CMPS 180	Digital System Design [< CMPS 100A / < CMPS 100B]	3					MATH 320	Linear Algebra I	3				
CMPS 200	Analysis and Design of Information Systems	3					MATH 335	Mathematics for Science and Engineering [< MATH 205 + < MATH 210]	3				
CMPS 205	Introduction to Multimedia Concepts	3					MATH 370	Discrete Mathematics	3				
CMPS 210	Digital Image and Video Processing	3					PHYS 265	Modern Physics [< PHYS 170]	3				
CMPS 230	Introduction to System Programming [< CMPS 215]	3					**Major Requirements (Compulsory) 69 Cr**						
CMPS 235	Numerical Computing [< MATH 370]	3					CHEM 140	Chemistry I [< FPE 103C + < FPM 102B + < FPT 102B]	3	-			
CMPS 255	Graphical User Interface [< CMPS 220]	3					CHEM 140L	Introductory Chemistry Laboratory [<= CHEM 140]	1	-			
CMPS 260	Operating Systems [< CMPS 215]	3					CIVE 210	Statics [< PHYS 170 + < ENGR 100 + < MATH 199]	3	-			
CMPS 310	Programming Languages [< CMPS 160]	4					CIVE 213	Strength of Materials [< CIVE 210]	3	-			
CMPS 350	Theory of Computation [< CMPS 110 + < MATH 370]	3					CIVE 215	Engineering Geology [< PHYS 170 + < ENGR 100]	3	-			
CMPS 400	Human-Computer Interaction [< CMPS 255]	3					CIVE 221	Construction Materials [< CIVE 213]	3	-			
CMPS 430	Compiler Construction [< CMPS 215 + < CMPS 310]	3					CIVE 221L	Construction Materials Laboratory [<= CIVE 221]	1	-			
CMPS 440	Selected Topics in Computer Science	3					CIVE 230	Geotechnical Engineering [< CIVE 213 + < CIVE 215]	3	-			
CMPS 465	Scientific Visualization [< MATH 250 + < CMPS 310N]	3					CIVE 230L	Geotechnical Engineering Laboratory [<= CIVE 230]	1	-			
MATH 103	Mathematics for Social Science I [< FPE 103C + < FPM 101A + < FPM 102B]	3					CIVE 241	Fluid Mechanics [< MATH 200 + < CIVE 210]	3	-			
MATH 120	Geometry and Trigonometry [< FPE 103C + < FPM 102B]	3					CIVE 241L	Fluid Mechanics Laboratory [<= CIVE 241]	1	-			
MATH 240	Mathematics Computer Application I [< MATH 199]	3					CIVE 250	Structural Analysis I [< CIVE 210]	3	-			
MATH 250	Probability and Statistics [< MATH 200]	3					CIVE 250L	Structural Analysis I Laboratory [<= CIVE 250]	1	-			
MATH 260	Numerical Analysis I [< MATH 210]	3					CIVE 265	Surveying and GPS	3	-			

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	[< MATH 200]							[< CIVE 230]					
CIVE 265L	Surveying and GPS Laboratory [<= CIVE 265]	1	-				CIVE 440	Hydraulics and Laboratory [< CIVE 241 + < CIVE 241L]	3				
CIVE 325	Concrete I [< CIVE 250 + < CIVE 221]	3	-				CIVE 460	Highway Engineering [< CIVE 361]	3				
CIVE 331	Steel Design [< CIVE 213 + < CIVE 250]	3	-				CIVE 485	Specifications and Cost Estimation [< CIVE 325 + < CIVE 221]	3				
CIVE 340	Engineering Hydrology [< CIVE 241]	3	-				CIVE 510	Bridges [< CIVE 420 + < CIVE 410 + < CIVE 331]	3				
CIVE 350	Environmental Engineering [< CIVE 340]	3	-				CIVE 511	Advanced Structural Analysis [< CIVE 410]	3				
CIVE 361	Transportation Engineering [< CIVE 265]	3	-				CIVE 520	Plain Concrete [< CIVE 221]	3				
CIVE 401	Final Year Project I	0	-				CIVE 522	Prestressed Concrete [< CIVE 420]	3				
CIVE 402	Final Year Project II [< CIVE 401]	3	-				CIVE 530	Applied Foundation Engineering [< CIVE 430]	3				
CIVE 420	Concrete II [< CIVE 325]	3	-				CIVE 532	Soil and Site Improvement [< CIVE 230]	3				
CIVE 451	Water and Wastewater Treatment [< CIVE 241 + < CHEM 140]	3	-				CIVE 540	Hydraulic Structures [< CIVE 440]	3				
CIVE 451L	Water and Wastewater Treatment Laboratory [<= CIVE 451]	1	-				CIVE 541	Surface Water Hydrology [< CIVE 340]	3				
CIVE 470	Highway Design [< CIVE 361]	3	-				CIVE 542	Groundwater Hydrology [< CIVE 340]	3				
CIVE 470L	Highway Engineering Laboratory [<= CIVE 470]	1	-				CIVE 550	Methods of Environmental Sampling and Analysis [< CIVE 350 + < CIVE 451]	3				
CIVE 480	Construction Management [< CIVE 325 + < CIVE 221]	3	-				CIVE 553	Water and Sewage Works Design [< CIVE 350 + < CIVE 451]	3				
PHYS 170L	Introductory Physics Laboratory [<= PHYS 170]	1	-				CIVE 554	Solid Waste Management I [< CIVE 350]	3				
PHYS 210	Fundamentals of Physics II [< PHYS 170 / <= MATH 200]	3	-				CIVE 560	Pavement Design [< CIVE 361]	3				
Major Requirements (Elective) Select 9 Cr (CE: CIVE Major Electives)							CIVE 561	Urban Transportation Planning I [< CIVE 361]	3				
CIVE 410	Structural Analysis II [< CIVE 250]	3					CIVE 562	Traffic Engineering	3				
CIVE 430	Foundation Engineering	3											

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	[< CIVE 361]												
CIVE 570	Introduction to Geographic Information Systems [< CIVE 265]	3											
CIVE 590	Structural Dynamics [< CIVE 250]	3											