

Typical Course Sequence for BSc in Petroleum Geosciences with a Concentration in Geophysics

Academic Year 2020-2021

	FALL SEMESTER		SPRING SEMESTER	
Year 1	ENGL 101 Academic English I	3 cr.	ENGL 102 Academic English II	3 cr.
	MATH 111 Calculus I	4 cr.	PHYS 121 University Physics I	4 cr.
	ENGR 111 Engineering Design	4 cr.	MATH 112 Calculus II	4 cr.
	CHEM 115 General Chemistry I	4 cr.	CHEM 116 General Chemistry II	4 cr.
Summer				
Year 2	PGEG 200 Intro. to Geology & Geophysics	3 cr.	BUSS XXX Business Studies Elective or HUMA XXX Humanities and Social Sciences	3 cr.
	ENGR 113 Introduction to Computing using Matlab	4 cr.	MATH 206 Differential Equations	3 cr.
	MATH 231 Calculus III	3 cr.	HUMA XXX Islamic Studies Elective	3 cr.
	PHYS 122 University Physics II	4 cr.	PGEG 230 Geological Maps	3 cr.
	HUMA XXX UAE Studies Elective	3 cr.	PGEG 210 Earth Materials	3 cr.
			PGEG 221 Geology of the Middle East	3 cr.
Summer	LTCM XXX Literature & Comp. Elective	3 cr.		
Year 3	BUSS 322 Fundamentals of Innovation & Entrepreneurship	3 cr.	BUSS XXX Business Studies Elective	3 cr.
	PGEG 311 Sedimentary Petrology	4 cr.	PGEG 351 Applied Geophysics	4 cr.
	PGEG 321 Structural Geology	4 cr.	PGEG 361 Sedimentology & Stratigraphy	3 cr.
	PGEG 321 Reflection Seismology	4 cr.	PGEG 371 Data Analysis & Geostatistics	4 cr.
	PGEG 300 Matlab for Earth Scientists	3 cr.	PGEG 381 Rock Mechanics & Reservoirs	3 cr.
			SDAS 300 Career Development	0 cr.
Summer	PGEG 398 Geophysics Internship	1 cr.		
Year 4	PGEG 400 Seismic Data Acquisition and Processing	3 cr.	PGEG 410 Reservoir Geophysics	3 cr.
	PGEG 401 Petrophysics & Logging	4 cr.	PGEG 412 Seismic Reflection Interpretation	4 cr.
	PGEG 497 Senior Research Project I	3 cr.	PGEG 451 Environmental Geology	3 cr.
	HUMA XXX Arabic Language Elective	3 cr.	PGEG 461 Reservoir Characterization Project	4 cr.
	Free Elective	3 cr.	PGEG 498 Senior Research Project II	3 cr.
Total credit Hours				137 cr.