



**Bachelor of Science in Geosciences Model Study Plan (2020-2021 Cohort onwards)**

**For Students Admitted to the University from the Fall Semester  
Total Degree Credit hours: 120**

Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 (Fall)	SPH102	Introduction to Academic English For Science	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	Year 1 (Spring)	MATH100	Calculus I	3	Support course
	PHYS105	General Physics I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		PHYS100	Basic Biology I	3	Support course
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 2: Quantitative Reasoning)		GEOL100	Physical Geology	3	Specialization
	COMP111	Introduction to Programming	3	Support course		GEOL124	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	CHM111	General Chemistry I	3	Support course		PHYS110	General Physics II	3	Support course
Year 2 (Fall)	INTV100	Student choice	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	Year 2 (Spring)	GEOL300	Genesis and Metamorphic Rocks	3	Specialization
	STAT110	Probability and Statistics	3	Support course		GEOL340	Sedimentation and sedimentary rocks	3	Specialization
	GEOL215	Mineralogy	3	Specialization		GEOL370	Geophysics	3	Specialization
	GEOL220	Structural Geology	3	Specialization		Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	GEOL260	Paleontology	3	Specialization		HS1105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
Elective	Student choice	3	Free Elective	Elective	Student choice	3	Free Elective		
Year 3 (Fall)	GEOL390	Stratigraphy	3	Specialization	Year 3 (Spring)	GEOL425	Hydrogeology	3	Specialization
	GEOL400	Remote Sensing and GIS	3	Specialization		GEOL430	Environmental Geoscience	3	Specialization
	GEOL410	Geochemistry	3	Specialization		GEOL440	Nuclear Geoscience	3	Major Elective
	GEOL345	Engineering Geology	3	Major Elective		GEOL395	Seismic Methods	3	Major Elective
	GEOL322	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		GEOL112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
Year 4 (Fall)	GEOL404	Hydrogen geoscience	3	Specialization	Year 4 (Spring)	GEOL499	Final Energy	3	Specialization
	GEOL470	Research Project	3	Specialization		GEOL500	Internship	6	Internship
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)					
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)					
	GEOL475	Geology Of UAE	3	Major Elective					