



Bachelor of Science in Geosciences Model Study Plan (2022-2023 Cohort onwards)

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

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	SPH102	Introduction to Academic English For Science	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	2 (Spring)	MATH110	CalculusII	3	Support course
	PHYS105	General Physics I	3	Gen Ed Course (Cluster 1: Area 3: Natural Sciences)		BIOL100	Basic Biology I	3	Support course
	MATH105	CalculusI	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		GEOL100	Physical Geology	3	Specialization
	CSBP112	Introduction to Programming	3	Support course		GEOL122	Sustainability	3	Gen Ed Course (Cluster 2: Area 2: Sustainability)
	CHEM111	General Chemistry I	3	Support course		PHYS110	General Physics II	3	Support course
Year 2 (Fall)	Elective	Student choice	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	4 (Spring)	PHYS100	Igneous 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 3: Social and Behavioral Sciences)
	GEOL260	Paleontology	3	Specialization		PHS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirati Society)
Year 3 (Fall)	Elective	Student choice	3	Free Elective	6 (Spring)	Elective	Student choice	3	Free Elective
	GEOL390	Stratigraphy	3	Specialization		GEOL425	Hydrogeology	3	Specialization
	GEOL400	Remote Sensing and GIS	3	Specialization		GEOL430	Environmental Geoscience	3	Specialization
	GEOL430	Geochemistry	3	Specialization		GEOL440	Nuclear Geoscience	3	Major Elective
	GEOL345	Engineering Geology	3	Major Elective		GEOL395	Seismic Methods	3	Major Elective
Year 4 (Fall)	GEOL222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	8 (Spring)	GEOL112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	GEOL404	Hydrothermal Geoscience	3	Specialization		GEOL499	Field Geology	3	Specialization
	GEOL470	Research Project	3	Specialization		GEOL500	Internship	6	Internship
	RLM100/RLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)					
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 4: Humanities and Fine Arts)					
	GEOL475	Geology of UAE	3	Major Elective					

Bachelor of Science in Geosciences Model Study Plan (2025-2026 Cohort onwards)

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

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	ESAP101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency	2 (Spring)	MATH110	CalculusI	3	Support course
	PHYS105	General Physics I	3	Specialization		CSBP119	Algorithms and Problem Solving	3	Support course
	MATH105	Calculus	3	Specialization		GEOL100	Physical Geology	3	Specialization
	BIOL100	Basic Biology I	3	Support course		GEOL110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
	CHEM111	General Chemistry I	3	Support course		PHYS110	General Physics II	3	Support course
Year 2 (Fall)	STAT110	Probability and Statistics	3	Support course	4 (Spring)	GEOL300	Igneous and Metamorphic Rocks	3	Specialization
	GEOL215	Mineralogy	3	Specialization		GEOL340	Sedimentation and sedimentary rocks	3	Specialization
	GEOL220	Structural Geology	3	Specialization		GEOL370	Geophysics	3	Specialization
	GEOL260	Paleontology	3	Specialization		GEOL375	Sustainability	3	Gen. Ed. Theme 5: Sustainability
	GEIT113	Introduction to Artificial Intelligence	3	Gen. Ed. Theme 3: Innovation		Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
Year 3 (Fall)	GEOL222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship	6 (Spring)	Elective	Student choice	3	Free Elective
	GEOL390	Stratigraphy	3	Specialization		GEOL425	Hydrogeology	3	Specialization
	GEOL400	Remote Sensing and GIS	3	Specialization		GEOL430	Environmental Geoscience	3	Specialization
	GEOL430	Geochemistry	3	Specialization		Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective		GEOL460	Petroleum Geoscience	3	Specialization
Year 4 (Fall)	GEOL435	Petrophysics	3	Major Elective	8 (Spring)	Elective	Student choice	3	Free Elective
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11		GEOL499	Field Geology	3	Specialization
	GEOL470	Research Project	3	Specialization		GEOL500	Internship	6	Internship
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Free Elective					