

Course Requirements and Registration Priorities
School of Mining and Geosciences (Undergraduate), Spring 2021

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SMG											
Economics, School of Mining and Geosciences											
1	SMG 200/ECON 220	Resource Economics	3	6	MATH 161 Calculus I (118) (C- and above) OR MATH 162 Calculus II (170) (C- and above)			SEDS, SMG, SSH, SoM			
Mining Engineering											
2	MINE 201	Mineral Processing	3	6				SMG	SEDS	SSH, SoM	
3	MINE 306	Underground Mining Systems and Design	3	6	MINE 302 Geomechanics (5878) (D and above) AND MINE 405 Mine Ventilation (5879) (D and above)			SMG	SEDS	SSH, SoM	
4	MINE 307	Surface Mining System and Design	3	6	MINE 302 Geomechanics (5878) (D and above)			SMG	SEDS	SSH, SoM	
5	MINE 308	Mine Planning	3	6				SMG	SEDS	SSH, SoM	
6	MINE 309	Sustainability and Mining Environment	3	6	SMG 100 Introduction to Natural Resources Extraction (4773) (D and above)			SMG	SEDS	SSH, SoM	
7	MINE 310	Rock Breakage	3	6	MINE 302 Geomechanics (5878) (D and above)			SMG	SEDS	SSH, SoM	
Petroleum Engineering											
8	PETE 202	Transport Phenomena	3	6	ENG 200 Engineering Mathematics III (Differential Equations and Linear Algebra) (5009) (C- and above) OR CHEM 101 General Chemistry I (113) (C- and above) OR CHEM 101L General Chemistry I lab (179) (C- and above)			Petroleum Engineering	SEDS		
9	PETE 203	Drilling Engineering with Laboratories	4	8	PETE 201 Fluid Mechanics and Thermodynamics (5120) (C- and above)			Petroleum Engineering	SEDS		
10	PETE 204	Reservoir Rock and Fluid Properties with Lab	4	8	PHYS 162 Physics II for Scientists and Engineers with Laboratory (173) (C- and above)			Petroleum Engineering	SEDS		
11	PETE 305	Well Test Analysis	3	6	PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			Petroleum Engineering	SEDS		
12	PETE 306	Reservoir Engineering II	3	6	PETE 204 Reservoir Rock and Fluid Properties with Lab (5487) (C- and above) OR PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			Petroleum Engineering	SEDS		
13	PETE 307	Production Engineering	3	6	PETE 201 Fluid Mechanics and Thermodynamics (5120) (C- and above) OR PETE 302 Reservoir Engineering I with Laboratory works (5955) (C- and above)			Petroleum Engineering	SEDS		

14	PETE 405	Enhanced Oil Recovery	3	6	PETE 204 Reservoir Rock and Fluid Properties with Lab (5487) (D and above)			Petroleum Engineering	SEDS		
School of Mining and Geosciences											
15	GEOL 101	Fundamentals of Geology	3	6				1 year UG SMG	SMG	SEDS, SSH, SoM	
16	GEOL 204	Sedimentology and stratigraphy	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above) AND GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above)			SMG			
17	GEOL 205	Paleontology	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			SMG			
18	GEOL 301	Sedimentary petrology	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above)	GEOL 202 Geologic Maps and Cross-Sections (5123) (D and above)		SMG			
19	GEOL 306	Geodynamics	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			SMG			
20	GEOL 307	Geographic Information Systems	3	6				SMG			
21	GEOL 308	Environmental Geochemistry	3	6				SMG			
22	GEOL 309	Hydrogeology	3	6				SMG			
23	SMG 100	Introduction to Natural Resources Extraction	3	6				SMG	SEDS	SSH, SoM	