

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

#	Abbr	Title	Cr(US)	Cr(ECTS)	PreRequisite	CoRequisite	AntiRequisite	1st priority registration	2nd priority registration	3rd priority registration	4th priority registration
SMG											
Mining Engineering											
1	MINE 507	Rock Excavation Methods	3	6				Mining Engineering	Biomedical Engineering, Chemical and Materials Engineering, Civil and Environmental Engineering, Computer Science, Data Science, Electrical and Computer Engineering, Electrical and Electronic Engineering, Engineering Management, Industrial and Systems Engineering, Mechanical and Aerospace Engineering, Robotics		
2	MINE 508	Advanced Rock Mechanics	3	6				Mining Engineering	Biomedical Engineering, Chemical and Materials Engineering, Civil and Environmental Engineering, Computer Science, Data Science, Electrical and Computer Engineering, Electrical and Electronic Engineering, Engineering Management, Industrial and Systems Engineering, Mechanical and Aerospace Engineering, Robotics		
3	MINE 509	Advanced Surface Mine Design	3	6				Mining Engineering	Biomedical Engineering, Chemical and Materials Engineering, Civil and Environmental Engineering, Computer Science, Data Science, Electrical and Computer Engineering, Electrical and Electronic Engineering, Engineering Management, Industrial and Systems Engineering, Mechanical and Aerospace Engineering, Robotics		
4	MINE 510	Advanced Underground Mine Design	3	6				Mining Engineering	Biomedical Engineering, Chemical and Materials Engineering, Civil and Environmental Engineering, Computer Science, Data Science, Electrical and Computer Engineering, Electrical and Electronic Engineering, Engineering Management, Industrial and Systems Engineering, Mechanical and Aerospace Engineering, Robotics		
5	MINE 691	Thesis II	15	30	MINE 690 Thesis I (4531) (P)			Mining Engineering			
Petroleum Engineering											
6	PETE 506	Advanced Reservoir Simulation	3	6				1 year Gr SMG Petroleum Engineering			

7	PETE 507	Advanced Reservoir Engineering	3	6				1 year Gr SMG Petroleum Engineering			
8	PETE 508	Advanced Production Engineering	3	6				1 year Gr SMG Petroleum Engineering			
9	PETE 600	Thesis I	6	12				2 year Gr SMG Petroleum Engineering			
10	PETE 606	Advanced Enhanced Oil Recovery	3	6				Petroleum Engineering			
11	PETE 613	Unconventional resources drilling	3	6				Petroleum Engineering			
12	PETE 614	Introduction to Geospatial, Earth Observation and Surveying Technologies for Onshore and Marine Petroleum and Mining Industry	3	6				Petroleum Engineering			
School of Mining and Geosciences											
13	SMG 520	Research Methods	3	6				1 year Gr SMG Mining Engineering, 1 year Gr SMG Petroleum Engineering			