

**Course Requirements and Registration Priorities
School of Mining and Geosciences, Fall 2019**

#	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 501	Foundations of Mining	3	6				Mining Engineering			
2	MINE 502	Geology for Mining Engineers	3	6				Mining Engineering			
3	MINE 503	Applied Geostatistics	3	6				Mining Engineering			
4	MINE 504	Mine Geomechanics	3	6				Mining Engineering			
5	MINE 505	Advanced Mine Ventilation	3	6				Mining Engineering			
6	MINE 601	Mine Management and Sustainability	3	6				Mining Engineering			
7	MINE 602	Mine Automation and Maintenance	3	6				Mining Engineering			
8	MINE 603	Multivariate Geostatistics	3	6	MINE 503 Applied Geostatistics (3692) (C- and above)			Mining Engineering			
9	MINE 606	Underground Hard Rock Geotechnical Engineering	3	6				Mining Engineering			
10	MINE 690	Thesis I	6	12				Mining Engineering			
11	MINE 701	Advanced Mine Geomechanics	4	8				1 year PhD SEDS Science, Engineering and Technology	Eurasian Studies		
12	MINE 804	Unconventional Mining Systems	4	8	MINE 501 Foundations of Mining (3693) (C and above)			1 year PhD SEDS Science, Engineering and Technology	Eurasian Studies		
13	MINE 890	Thesis Research	0	0				1 year PhD SEDS Science, Engineering and Technology			
Petroleum Engineering											
14	PETE 201	Fluid Mechanics and Thermodynamics	3	6	MATH 161 Calculus I (118) (D and above) OR CHEM 101 General Chemistry I (113) (D and above)			SMG	SEDS, SSH, SoM		
15	PETE 501	Foundations of Petroleum Engineering	3	6				Petroleum Engineering	2 year Gr SMG Petroleum Engineering	SEDS, SSH	
16	PETE 502	Petroleum Geology	3	6				Petroleum Engineering	SEDS, SSH		

17	PETE 503	Fluid Flow Through Porous Media	3	6				Petroleum Engineering	SEDS, SSH		
18	PETE 504	Advanced Formation Evaluation	3	6				Petroleum Engineering	SEDS, SSH		
19	PETE 505	Advanced Drilling Engineering	3	6				Petroleum Engineering	SEDS, SSH		
20	PETE 509	Advanced Well Testing and Evaluation	3	6				Petroleum Engineering	SEDS, SSH		
21	PETE 600	MSc Thesis	12	24				Petroleum Engineering			
22	PETE 601	Petroleum Data Analytics	3	6				Petroleum Engineering			
23	PETE 612	Research Proposal Preparation	3	6				Petroleum Engineering			
24	PETE 802	Fluid Flow Through Porous Media	4	8				1 year PhD SEDS Science, Engineering and Technology	Eurasian Studies		
25	PETE 890	Thesis Research	0	0				1 year PhD SEDS Science, Engineering and Technology			
School of Mining and Geosciences											
26	GEOL 201	Mineralogy	3	6				SMG	SEDS, SSH, SoM		
27	GEOL 202	Geologic Maps & Cross-Sections	3	6	GEOL 101 Fundamentals of Geology (4774) (D and above) OR GEOL 102 Fundamentals of Geology (4772) (D and above)			SMG	SEDS, SSH, SoM		