

Mining Engineering 5 Year Plan of Study for ROTC Students

First Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry	3	ENGE 1216	Foundations of Engineering	2
CHEM 1045	General Chemistry Lab	1	ENGL 1106	First-Year Writing	3
ENGE 1215	Foundations of Engineering	2	MATH 1226	Calculus of a Single Variable	4
ENGL 1105	First-Year Writing	3	PHYS 2305	Foundations of Physics	4
MATH 1225	Calculus of a Single Variable	4			
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
15 - 19			15-18		

Second Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ESM 2104	Statics	3	ESM 2204	Mech of Deformable Bodies	3
GEOS 1004	Physical Geology	3	ESM 2304	Dynamics	3
GEOS 1104	Physical Geology Lab	1	MATH 2214	Differential Equations	3
MATH 2204	Multivariable Calculus	3	MINE 2524	Elements of Mining Design	3
MINE 2504	Intro to Mining Engineering	3			
MATH 1114	Elem. Linear Algebra	2			
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
14-19			13-16		

Third Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
MINE 3504	Rock Mech & Ground Control	3	MINE 3544	Mineral Processing Lab	1
MINE 3514	Rock Mech Lab	1	MINE 3554	Resource Recovery	2
MINE 3524	Excavation Engineering	3	MINE 3564	Underground Mine Design	3
MINE 3534	Mineral Processing	2	MINE 3574	Surface Mine & Quarry Design	3
ESM 3024	Intro to Fluid Mechanics	3		Area 2	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
13 - 18			13-18		

Fourth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
ECE 3054	Electrical Theory	3	GEOS 3104	Elementary Geophysics OR	3
ME 3134	Fund of Thermodynamics	3	GEOS 3404	Elements of Struct. Geology	3
MINE 2534	Mine Surveying & Mapping	3	MINE 3584	Ventilation Engineering	3
MINE 4504	Mat's Handling & Power Sys	3	MINE 4544	Mine Reclamation	3
	Area 6	1			
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
14 - 19			13-18		

Fifth Year

FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
MINE 4514	Health, Safety, & Risk Mgt	3	GEOS 4624	Mineral Deposits	3
MINE 4524	Project Eng & Mine Mgt	3	MINE 4536	Senior Design Project	2
MINE 4535	Senior Design Project	1	MINE 4554	MINE Leadership Seminar	1
	Area 2	3		Area 3	3
	Area 3	3		Area 7	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours			Total Credit Hours		
13 - 15			12-14		