

IMAGINE



AS A MINING ENGINEER

MODEL PROGRAM OF STUDY updated 3/29/2019

Freshman Year			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
CHEM 1210 & 1215	5	WRTG 2010	3
MATH 1210 Calculus I	4	MATH 1220 Calculus II	4
LEAP 1501 Social Ethical Eng. - BF	3	LEAP 1500 Eng & Humanities - HFDV	3
MG EN 1050 AutoCAD	2	GEO 1110 and 1115 Intro to Earth Science	4
MG EN 4990 Seminar	0.5	MG EN 4990 Seminar	0.5
		+MG EN 3015(Field trip-week before fall semester)	1
TOTAL HOURS	14.5	TOTAL HOURS	15.5

Sophomore Year			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
+Field trip week before fall semester			
PHYCS 2210	4	PHYCS 2220	4
MG EN 3010 Intro to Mining	3	MATH 2210 Calculus III	3
MET E 1610 Intro to Metallurgy	2	CVEEN 2010 Statics or MET E 2300	3 or 2
MG EN 2400 Surveying	3	GEO 3065 Structural Geology for Engineers	2
American Institutions - AI	3	GEO 3070 Petrology for Engineers	2
MG EN 4990 Seminar	0.5	MG EN 4990 Seminar	0.5
		TOTAL HOURS	
	15.5		13.5

TOTAL HOURS

Junior Year			
Fall Semester		Spring Semester**	
Requirement	Hours	Requirement	Hours
ECE 2200 Electrical Eng	1.5	MG EN 3400 Mine Surveying	1
MET E 3070 Statistics	3	MG EN 5010 Underground Methods	3
MATH 2250 ODE's	4	MG EN 5150 Mechanics of Materials	3
MG EN 5020 Surface Mining Methods	3	MG EN 5320 Hydraulics	3
CH EN 2300 Thermodynamics	2	General Education* BF	3
MG EN 4990 Seminar	0.5	MG EN 5350 Health & Safety	3
		MG EN 4990 Seminar	0.5
TOTAL HOURS	14.0	TOTAL HOURS	16.5

Senior Year			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
Technical Elective†	2	General Education* FFIR	3
MG EN 5040 Engineering Design	2	General Education* FF	3
MG EN 5050 Ventilation	3	MG EN 5080 Permitting & Reclamation	2
MG EN 5160 Rock Mechanics	3	MG EN 5090 or 5120 Sr Design Projects - CW	3
MG EN 5340 Mineral Evaluation	3	MG EN 5170 Mine Admin & Finance	2
MG EN 4990 Seminar	0.5	Technical Elective†	2
General Education* HF	3	MG EN 4990 Seminar	0.5
TOTAL HOURS	16.5	TOTAL HOURS	15.5

*One General Education must meet the International Requirement

**Interested students sign up for Fundamentals of Engineering (FE) exam this semester

†Four hours of technical electives should be selected