

IMAGINE



AS A MINING ENGINEER

MODEL PROGRAM OF STUDY

Freshman Year			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
CHEM 1210, 1215	5	WRTG 2010	3
MATH 1210 or 1310 Calculus I	4	MATH 1220 or 1320 Calculus II	4
LEAP 1501 Social Ethical Eng. - BF	3	LEAP 1500 Eng & Humanities - HFDV	3
MG EN 1050 Technical Comm-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	15.5	TOTAL HOURS	15.5

Sophomore Year			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
PHYCS 2210	4	PHYCS 2220	4
MG EN 3010 Intro to Mining	3	MATH 2210 Calculus III	3
MET E 1610 Intro to Metallurgy	1.5	CVEEN 2010 or MEEN 2010 Statics	3
GEO 3070 Petrology	2	GEO 3060 Structural Geology	3
MG EN 2200 Utah Mining History - DV	3	American Institutions - AI	3
MG EN 2400 Surveying	3	MG EN 4990 Seminar	0.5
MG EN 4990 Seminar	0.5		
TOTAL HOURS	17	TOTAL HOURS	16.5

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 Mining Methods	3
MATH 2250 ODE's	4	MG EN 5150 Mechanics of Materials	3
MG EN 5020 Surface Mining Methods	3	MG EN 5350 Health & Safety MGNT	3
MG EN 5320 Hydraulics	3	General Education* BF	3
CH EN 2300 Thermodynamics	2	MG EN 4990 Seminar	3
MG EN 4990 Seminar	0.5		0.5
TOTAL HOURS	17.0	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



TRANSFER STUDENT PROGRAM OF STUDY

with Associates Degree-CHEMISTRY, GEOLOGY 1110/1115, MATH COMPLETED THROUGH CALCULUS 2*

1ST YEAR			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
MG EN 3015 (held the week before fall semester)	1	PHYSICS 2220	4
PHYSICS 2210	4	MATH 2210 Calculus III	3
MG EN 3010 Intro to Mining	3	CVEEN 2010 or MEEN 2010 Statics	3
MG EN 1050 Technical Communications	2	GEO 3060 Structural Geology	3
MG EN 2400 Surveying	3	MG EN 4990 Mining Seminar	0.5
MG EN 4990 Mining Seminar	0.5		
TOTAL HOURS	14.5	TOTAL HOURS	13.5
2ND YEAR			
Fall Semester		Spring Semester**	
Requirement	Hours	Requirement	Hours
MG EN 5020 Surface Mining	3	ECE 2200 Electrical Eng	1.5
MG EN 5320 Hydraulics	3	MG EN 5010 Underground Mining	3
MET E 3070 Statistics	3	MG EN 5150 Mechanics of Materials	3
MET E 1610 Intro to Metallurgy	1.5	MG EN 3400 Mine Surveying	1
CH EN 2300 Thermodynamics	2	MG EN 5350 Health & Safety Mgmt	3
MATH 2250 ODE	4	MG EN 4990 Mining Seminar	0.5
MG EN 4990 Mining Seminar	0.5	Technical Elective†	2
TOTAL HOURS	17	TOTAL HOURS	14
3RD YEAR			
Fall Semester		Spring Semester	
Requirement	Hours	Requirement	Hours
		Technical Elective†	2
MG EN 5040 Engineering Design	2	MG EN 5080 Permitting & Reclamation	2
MG EN 5050 Ventilation	3	MG EN 5090 or 5120 Sr Design	3
MG EN 5160 Rock Mechanics	3	MG EN 5170 Mine Finance	2
MG EN 5340 Mineral Evaluation	3	MG EN 4990 Mining Seminar	0.5
GEO 3070 Petrology for Engineers	2	Gen Ed - IR requirement	3
MG EN 2200 (fulfills DV) UT Mining History	3		
MG EN 4990	0.5		
TOTAL HOURS	16.5	TOTAL HOURS	12.5

†Four hours of technical electives should be selected

*Transfer students with associate degrees still need to fulfill DV & IR General Ed requirements

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

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