

## MINING ENGINEERING UNDERGRADUATE PROGRAM OF STUDY: Catalog Year 2024-Present

### Requirements:

A minimum C grade is required in all MG EN program course categories and Emphasis courses.

Students must meet with the academic advisor to select an emphasis for their degree program.

Emphasis options: Mine Operations Management; Mine Safety and Health; or Geomechanics & Spatial Analytics

Fall Semester		Spring Semester		Total hr/year
CHEM 1210 & 1215 - PS		5 WRTG 1010 - WR1	3	29.5
MATH 1210 Calculus I QL		4 MATH 1220 Calculus II	4	
QUEST 1120 OR 1130 BFDV		3 Gen Ed - HF	3	
MG EN 1050 Computational Skills		2 GEO 1100 Evolving Earth-LS	3	
MG EN 3010 Intro to Mining		1 MG EN 3015 Mine Visits (wk before fall)	1.0	
MG EN 4990 Seminar		0.5		
TOTAL HOURS		15.5 TOTAL HOURS	14.0	
Fall Semester		Spring Semester		31.0
Requirement	Hours	Requirement	Hours	
PHYCS 2210 Phys for Science/Eng I		4 PHYCS 2220 Phys for Science/Eng II	4	
MET E 1610 Intro to Metallurgy		1.5 MATH 2210 Calculus III	3	
MG EN 2400 Surveying		3 CVEEN 2010 Statics or MET E 2300	2	
American Institutions - AI		3 GEO 3065 Structural Geology	2	
WRTG 2010 - WR2		3 GEO 3070 Petrology for Engineers	2	
MG EN 4990 Seminar		0.5 <b>Emphasis Core Elective</b>	3	
TOTAL HOURS		15.0 TOTAL HOURS	16.0	
Fall Semester		Spring Semester		30.0
Requirement	Hours	Requirement	Hours	
<b>Emphasis Core 1</b>		3 ECE 2200 Electrical Eng	1.5	
MG EN 5030 Materials Handling		2 MG EN 5010 Underground Methods	3	
MATH 2250 ODE		4 MG EN 5150 Mechanics of Materials** QI	3	
MG EN 5020 Surface Mining Methods		3 MG EN 5320 Hydraulics	3	
CH EN 2300 Thermodynamics		2 MG EN 5350 Mining Safety/Health -1	1	
MG EN 4990 Seminar		0.5 MATH 3070 Statistics	4	
TOTAL HOURS		14.5 TOTAL HOURS	15.5	
Fall Semester		Spring Semester		29.5
Requirement	Hours	Requirement	Hours	
MG EN 5050 Ventilation		3 Gen Ed FF	3	
MG EN 5160 Rock Mechanics		3 MG EN 4080 Permitting & Reclamation	2	
MG EN 5340 Mineral Evaluation*		3 MG EN 5090 or 5120 Sr Design - CW/QI	3	
<b>Emphasis Core 2</b>		3 MG EN 5170 Mine Finance	2	
MG EN 4990 Seminar		0.5 <b>Emphasis Core Elective</b>	3	
Gen Ed IR		3 <i>Course as needed to reach 120 credit hrs</i>	1	
TOTAL HOURS		15.5 TOTAL HOURS	14	
<b>***TOTAL PROGRAM HOURS</b>				<b>120</b>

\*MUST BE TAKEN PRIOR TO MG EN 5120 or 5090

\*\*MUST BE TAKEN IN SPRING OF JR YEAR IN ORDER TO GRADUATE THE FOLLOWING SPRING