

# Mining Engineering (2012-13)

Below is the *advised sequencing* of courses for this degree,  
the official degree requirements are found in the University General Catalog.

FRESHMAN YEAR				SOPHOMORE YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
ENGR 102	3	MATH 129	3	MNE 205	3	MNE 210	2
MATH 125 or 122A/B <sup>#</sup>	3/5	CHEM 152	4	MNE 296a <sup>###</sup>	1	MNE 296a <sup>###</sup>	(0)
CHEM 151	4	PHYS 141	4	CE 214	3	CE 215	3
ENGL 101	3	ENGL 102	3	MATH 223	4	MATH 254	3
Tier 1 TRAD <sup>##</sup>	3	Tier 1 TRAD <sup>##</sup>	3	GEOS 251	4	PHYS 241	4
				Tier 1 INDV <sup>##</sup>	3	Tier 1 INDV <sup>##</sup>	3
TOTAL	16/18	TOTAL	17	TOTAL	18	TOTAL	15

JUNIOR YEAR				SENIOR YEAR			
First Semester		Second Semester		First Semester		Second Semester	
Course	Units	Course	Units	Course	Units	Course	Units
MNE 396a <sup>###</sup>	1	MNE 396a <sup>###</sup>	(0)	MNE 407 <sup>+++</sup>	3	GEOS 304	4
MNE 427	4	MNE 406a/b <sup>+++</sup>	3	MNE 422	3	Tech Elect <sup>+++</sup>	3
CE 218	3	MNE 436	4	MNE 426 <sup>+++</sup>	3	Tech Elect <sup>+</sup>	3
ENGR 211k, m, and p	2	MNE 402, SIE 305, or CE 310 <sup>++</sup>	3	MNE 498	1	MNE 498	2
MNE 412 <sup>+++</sup>	2	MNE 438	2	Tech Elect <sup>+,+++</sup>	3	Tier 2 Art/Hum <sup>##</sup>	3
Tech Elect <sup>+,+++</sup>	5	Tier 2 INDV <sup>##</sup>	3	Tech Elect <sup>+,***</sup>	3		
TOTAL	17	TOTAL	15	TOTAL	16	TOTAL	15

TOTAL UNITS = 128

<sup>#</sup> MATH 122A/B is a 5 unit version of MATH 125. Students taking MATH 122A/B should consider delaying the Tier 1 INDV course to maintain a reasonable academic load.

<sup>##</sup> INDV/TRAD/Art/Hum courses must meet University general education requirements. One course must be recognized by the University as focusing on gender, race, class, ethnicity, sexual orientation or non-western area of studies. TRAD 101 satisfies this requirement. Check with department for alternate sequencing of Tier 2 Art/Hum depending on track.

<sup>###</sup> Register for course in fall semester and receive credit at the end of spring semester.



+ Technical electives are selected from engineering and science courses as outlined below.

++ Probability & Statistics elective: MNE 402, SIE 305, or CE 310.

+++ Important. Courses may be offered alternate years. They must be taken in appropriate junior or senior year: consult MNE faculty advisor.

\* Only the mine operations track takes this elective.

\*\* The sustainable development track takes a 4-unit elective.

\*\*\* The geomechanics track takes a 5-unit soil mechanics elective.

Technical Electives - complete as indicated for the following three tracks:

Mine Operations Track - Complete:

1. MNE 411(3), 415(3), 447(3)
2. Technical Electives – 6 units (Upper Division) as approved by Faculty Advisor.
3. MNE 498 (3)

Geomechanics Track - Complete:

1. CE 343(4), CE 349(1), MNE 447(3), MNE 415(3)
2. MNE 498 (3)
3. Technical Electives – 4 courses as approved by Faculty Advisor

Sustainable Resource Development Track - Complete:

1. MNE 430(3), 484(3) , 411(3)
2. Technical Electives - 9 units as approved by Faculty Advisor.
3. MNE 498(3)

Mineral Processing Track – Complete:

1. MNE 411(3), MNE 439(3), MNE 450(3), MNE 465(3)
2. Technical Electives – 3 units as approved by Faculty Advisor.
3. MNE 498(3)