

Sustainable Resource Development Track	
Freshman year – Fall Semester	Spring Semester
General Education – Traditions and Cultures 3 units TRAD 101	General Education – Traditions and Cultures 3 units TRAD 102 or 103
English 101 3 units	English 101 3 units
Analytical Chemistry with lab 4 units CHEM 103A,104A	Analytical Chemistry with lab 4 units CHEM 103B,104B
Introduction to engineering design 3 units ENGR 102	Mechanics 4 units Physics 141
Calculus I 3 units MATH 125	Calculus II 3 units MATH 129
16 UNITS	17 UNITS
Sophomore year	
General Education – Individuals and Societies 3 units INDIV 101	General Education – Individuals and Societies 3 units INDIV 102 or 103
Introduction to Earth Engineering 3 units MGE 200	Mineralogy and Petrology for Engineers 2 units MGE 210
Physical Geology 4 units GEOS 251	Electricity & Magnetism 4 units Physics 241
Statics 3 units CE 214	Mechanics of Materials 3 units CE 215
Vector calculus 4 units MATH 223	Differential equations 3 units MATH 254
<i>Seminar 296a</i> 1 unit credit for 2 semesters	<i>Seminar 296a</i> 1 unit credit for 2 semesters
17 UNITS	16 UNITS
Enforce upper division standing at this point	
Summer Pre-Session Mine Surveying 2 units MNE 412 (2005, 2007)	
Junior year	
Fluid Mechanics CE 218 3 units	General Education – Tier 2 Individuals and Societies 3 units
Mine Equipment Technology 3 units MNE 407	Structural Geology 4 units GEOS 304
Thermodynamics 1 unit Engr 211K	Probability & Statistics, choose from MNE 402, CE 310, SIE 305, 3 units
Circuits 1 unit Engr 211M	
Engr Econ, 1 unit, Engr 211P	
Even Years: Mineral Processing, 3 units, MNE 411	Odd Years: Mine Ventilation 2 units MNE 406a ,
Odd Years: Tech Elec 4 units (choose from MCB 181R,L, or Chem 241a, 243a)	Even Years: General Education – Tier 2 Arts or Humanities 3 units
Health & Safety 1 unit MNE 426	
Geomechanics 4 units MNE 427	
MNE 396a Seminar 1 unit credit for 2 semesters	MNE 396a Seminar 1 unit credit for 2 semesters
Even yrs: 17 units; Odd yrs: 18 units	Even yrs: 14 units; Odd yrs: 13 units
Senior year	
Fundamentals of Industrial and Environmental Health, 3 units, MNE 484	2005, 2007: Mine Ventilation 2 units MNE 406a , 2006, 2008: General Education – Tier 2 Arts or Humanities 3 units
Sustainable Resource Development, 3 units, MNE 422	Surface Mine Design 2 units MNE 434
Tech Elec 3 units – (choose from MNE 430, HWR 423, 431, 443, 450, ABE 447) or advisor approval, must be upper division	Tech elec 3 units –advisor approval, must be upper division
2006, 2008: Mineral Processing, 3 units, MNE 411	Underground Mine Design 3 units MNE 438
2005, 2007: Tech Elec 4 units (choose from MCB 181R,L, or Chem 241a, 243a)	
Mine examination and valuation 3 units MNE 430	
Senior Design 1 unit MNE 498	Senior Design 2 units MNE 498

Even Yrs: 16 units; Odd Yrs: 17 units	Even Yrs: 13 units; Odd Yrs: 12 units
TOTAL UNITS=128	

Must have minimum of 42 units of upper division credit (curriculum = 46)
 MNE 396a, 406a, 407, 411, 412, 426, 427, 430, 484, 434, 438, 422, 498 = 33
 Geos 304 = 4
 Prob & stats = 3
 Tech elec = 6

Must have minimum of 48 units of engineering topics (curriculum = 52 without tech electives or MNE 210 or probability/stats)
 Engr 102, 211K,M,P = 6 units
 CE 214, 215, 218= 14 units
 MNE 200, 406a, 407, 411, 412, 426, 427, 430, 434, 438, 498, 422 = 32 units