

Geomechanics 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 102 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
Seminar 296a 1 unit credit for 2 semesters	Seminar 296a 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 odd years (2005 start)	
Junior year	
Tech Elec (choice of GEOS 322, 432, 434A, GEN 448, HWR 443, 450, CE 333, 335 or advisor approval) 3 units	Mine Ventilation 2 units MNE 406a
Thermodynamics 1 unit Engr 211K Circuits 1 unit Engr 211M Engr Econ, 1 unit, Engr 211P	Structural Geology 4 units GEOS 304
Fluid Mechanics CE 218 3 units	Probability & Statistics, choose from MNE 402, CE 310, SIE 305, 3 units
Mine Equipment Technology 3 units MNE 407	Underground Construction Geomechanics MNE 447 3 units
Health & Safety 1 unit MNE 426	
Geomechanics 4 units MNE 427	Rock Excavation 3 units, MNE 415
MNE 396a Seminar 1 unit credit for 2 semesters	MNE 396a Seminar 1 unit credit for 2 semesters
17 units	16 units
Senior year	
Tech Elec 3 units (choose from MNE 430, RNR 416a, 417, 422, Geog 330, ABE 320 or advisor approval, must be upper division)	Underground mine design 3 units MNE 438
Soil Mechanics 5 units CE 343 & 349	Surface Mine Design 2 units MNE 434
Sustainable Resource Development 3 units MNE 422	Tech Elec 3 units (choose from MNE 430, 484, RNR 416a, 417, 422, Geog 330, ABE 320 or advisor approval, must be upper division)
General Education – Tier 2 Arts or Humanities 3 units	General Education – Tier 2 Individuals and Societies 3 units
	Tech Elec 3 units advisor approval, must be upper division
Senior Design 1 unit MNE 498	Senior Design 1 unit MNE 498
15 units	15 units
TOTAL UNITS=128	