

Sample Curriculum

Semester 1

- 1 ME 101 (introduction to mineral engineering)
- 4 EARTH 101 & 131L (principals)
- 4 MATH 131 (calculus I)
- 4 CHEM 121 & 121L (general)
- 3 ENGL 111 (college English)

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Semester 2

- 3 ENGL 112 (college English)
- 4 MATH 132 (calculus II)
- 4 CHEM 122 & 122L (general)
- 3 Social Science/Humanities
- 3 Social Science/Humanities

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Semester 3

- 5 PHYS 121 & 121L (general physics)
- 4 MATH 231 (calculus III)
- 3 ES 201 (statics)
- 3 Social Science/Humanities
- 3 ME 220 & 220L (Surveying)

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Semester 4

- 5 PHYS122 & 122L (general physics)
- 3 ES 216 (fluids mechanics)
- 3 ES 302 (strength of materials)
- 4 EARTH 200 (Mineralogy)
- 2 ME 320 (economic analysis)

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Semester 5

- 3 ME 360 & 360L (exploration and field mapping)
- 3 ME 340 (geostatistics & mineral evaluation)
- 3 ENGL 341 (technical writing)
- 3 ME 420 & lab (soil mechanics)
- 3 Social Science/Humanities

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Semester 6

- 6 ME 380 & 380L (mine systems)
- 3 ME 413 (foundation engineering)
- 3 ME 422 & lab (rock mechanics)
- 3 Social Science/Humanities

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Semester 7

- 1 ME 470 (senior design I)
- 3 ME 435 (rock slope stability)
- 3 MATH 335 (applied analysis)
- 3 ES 347 (thermodynamics) or ES 303 (dynamics)
- 3 ME 440 (mine ventilation)
- 3 ME 410 & 410L (environmental issues)

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Semester 8

- 2 ME 471 (senior design II)
- 2 ME 419 (mineral and natural resources law)
- 3 ME 462 (mineral deposits)
- 3 ME 437 (tunneling & underground excavations)
- 3 Technical Elective
- 3 Social Science/Humanities

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