

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING (2017-2018 Catalog Year)**

** If you need the course plan for another catalog year, please contact your GE faculty advisor.

First Year: Fall

GE101 – Intro to Geological Engineering	1
MATH 251X – Calculus I	4
CHEM 105X – General Chemistry	4
WRTG 111X – Intro. to Acad. Writing	3
GER A, H, SS, E (1 of 6)	3
LS 101X – Library Info. & Research	1
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First Year: Spring

GE 261 – General Geology for Engr	3
MATH 252X – Calculus II	4
CHEM 106X – General Chemistry	4
COJO 131X/141X – Fund. of Comm.	3
WRTG 211X/213X – Acad. Writing	3
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Second Year: Fall

MATH 253X – Calculus III	4
GEOS 213 – Mineralogy	4
PHYS 211X – General Physics	4
MIN 225 (or STAT 300)	2 (or 3)
MIN 202 – Mine Surveying	3
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	17 (or 18)

Second Year: Spring

MATH 302 – Differential Eqn.	3
ES 208 – Mechanics	4
PHYS 212X – General Physics	4
GEOS 214 – Petrology & Petrography	4
GER A, H, SS, E (2 of 6)	3
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Third Year: Fall

ES 331 – Mechanics of Materials	3
GE 365 – Geological Materials Engr	3
GE 375 – Princ. of Engr Geol & Terr. Anal	3
GEOS 320 – Sedimentology for GE's	3
ES 346 – Basic Thermodynamcs	3
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Third Year: Spring

ES 341 – Fluid Mechanics	4
GEOS 314 – Structural Geology	4
MIN 370 – Rock Mechanics	3
GE 371 – Remote Sensing for Engr.	3
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Summer: After Third Year

GE 381 – Field Methods and Applied Design I	2
GE 382 – Field Methods and Applied Design II	4
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Fourth Year: Fall

GE 405 – Exploration Geophysics	3
GE 420 – Subsurface Hydrology	3
Technical Elective	3
GER A, H, SS, E (3 of 6)	3
GER A, H, SS, E (4 of 6)	3
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Fourth Year: Spring

GE 480 – Senior Design	3
MIN 408 – Mineral Valuation & Econ	3
Technical Elective	3
GER A, H, SS, E (5 of 6)	3
GER A, H, SS, E (6 of 6)	3
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NOTES:

* GER A. H. SS. E: General Education Requirements – Arts, Humanities, Social Science, Ethics

* Technical electives are selected from a list of approved technical electives for Geological Engineering, and in consultation with your Geological Engineering faculty advisor.

* Students must take the Fundamentals of Engineering Exam in order to graduate.