

Geology Major, Hydrogeology-Engineering Geology Emphasis Plan

The following four-year course of study is suggested for students working toward a Bachelor of Science or Bachelor of Arts degree in Geology with a Hydrogeology-Engineering Geology Emphasis.

For a Bachelor of Arts degree in Geology, the foreign-language requirement must be satisfied in addition to the Bachelor of Science in Geology requirements shown below.

Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

Freshman Year (32 credits)

Fall Semester (16 credits)

GEO 1110 (BPS) The Dynamic Earth: Physical Geology.....	4
CHEM 1210 Principles of Chemistry I.....	4
CHEM 1215 Chemical Principles Laboratory I.....	1
MATH 1210 (QL) Calculus I.....	4
University Studies course.....	3

Spring Semester (16 credits)

GEO 3200 (DSC) The Earth Through Time.....	4
CHEM 1220 (BPS) Principles of Chemistry II.....	4
CHEM 1225 Chemical Principles Laboratory II.....	1
MATH 1220 (QL) Calculus II.....	4
University Studies course.....	3

Sophomore Year (30-31 credits)

Fall Semester (14-15 credits)

GEO 3550 (CI) Sedimentation and Stratigraphy.....	4
PHYS 2210 (QI) General Physics—Science and Engineering I.....	4
MATH 2210 (QI) Multivariable Calculus (3 cr) or MATH 2250 (QI) Linear Algebra and Differential Equations (4 cr).....	3 or 4
ENGL 2010 (CL2) Intermediate Writing: Research Writing in a Persuasive Mode.....	3

Spring Semester (16 credits)

GEO 3700 Structural Geology.....	4
PHYS 2220 (BPS/QI) General Physics—Science and Engineering II.....	4
ENGR 2010 Engineering Mechanics Statics.....	2
University Studies courses.....	6

Junior Year (36 credits)

Fall Semester (14 credits)

ENGR 2030 Engineering Mechanics Dynamics.....	3
GEO 3600 Geomorphology.....	4
GEO 4700 (CI) Geologic Field Methods.....	3
University Studies and/or elective courses.....	4

Spring Semester (17 credits)

GEO 3500 Minerals and Rocks.....	4
ENGR 2140 Strength of Materials.....	2
Elective course(s).....	2
University Studies courses.....	9

Summer Semester (5 credits)

GEO 5200 Geology Field Camp.....	5
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Senior Year (27-28 credits)

Fall Semester (15 credits)

GEO 5510 (QI) Groundwater Geology.....	3
CEE 3500 Civil and Environmental Engineering Fluid Mechanics.....	3
University Studies and/or elective courses.....	9

Spring Semester (12-13 credits)

GEO 5600 Geochemistry.....	3
CEE 3430 Engineering Hydrology (3 cr) or CEE 4300 Engineering Soil Mechanics (4 cr).....	3 or 4
University Studies courses.....	6