ENVIRONMENTAL GEOLOGY
CONCENTRATION WITHIN THE
SPECIALIZED CURRICULUM

For the Degree of Bachelor of Science in
Geology

Major in Specialized Curriculum in Geology and
Geophysics

Graduation requires a grade point average of at least 2.0 overall and a 2.0
average in all required science and technical courses (geology, physics,
mathematics, chemistry, and technical requirements listed below). The
Department of Geology will supply upon request a Guide for Geology
Undergraduates giving more information about the curriculum.

E-mail: geology@illinois.edu

Web address for department: www.geology.illinois.edu (http://
www.geology.illinois.edu)

General education: Students must complete the Campus General
Education (https://courses.illinois.edu) requirements including the
campus general education language requirement.

Minimum hours required for graduation: 126 hours

Departmental distinction: Students who maintain a grade point average
of at least 3.5 in all geology courses and 3.0 in all other science
and mathematics courses and who complete an acceptable senior
thesis, including at least 4 hours credit in GEOL 492 or GEOL 493, are
recommended for graduation with distinction.

Chemistry- Select one group of courses:

CHEM 102  General Chemistry I
CHEM 103  General Chemistry Lab I
CHEM 104  General Chemistry II
CHEM 105  General Chemistry Lab II
or
CHEM 202  Accelerated Chemistry I
CHEM 203  Accelerated Chemistry Lab I
CHEM 204  Accelerated Chemistry II
CHEM 205  Accelerated Chemistry Lab II

24 hours of Geology Courses

GEOL 107  Physical Geology 1  4
GEOL 208  History of the Earth System  4
GEOL 380  Environmental Geology  4
GEOL 401  Geomorphology  4
GEOL 451  Env and Exploration Geophysics  4
or GEOL 452  Introduction to Geophysics
GEOL 470  Introduction to Hydrogeology  4

Mathematics

MATH 220  Calculus
or MATH 221  Calculus I
MATH 231  Calculus II
MATH 241  Calculus III

Physics

PHYS 211  University Physics: Mechanics
& PHYS 212  University Physics: Elec & Mag
or
PHYS 101  College Physics: Mech & Heat
& PHYS 102  College Physics: E&M & Modern

Statistics- Select one of the following:

CPSC 440  Applied Statistical Methods I
STAT 400  Statistics and Probability I

Additional Technical Requirements

Select from the following courses. At least 9 hours must be
geology courses and at least 9 hours must be non-geology
courses.

CEE 330  Environmental Engineering
CHEM 232  Elementary Organic Chemistry I
CS 101  Intro Computing: Engrg & Sci
CS 125  Intro to Computer Science
ENVS 431  Environ Toxicology & Health
GEOG 477  Introduction to Remote Sensing
GEOL 411  Structural Geol and Tectonics
GEOL 417  Geol Field Methods, Western US 2
GEOL 432  Mineralogy and Mineral Optics
GEOL 436  Petrology and Petrography
GEOL 440  Sedimentology and Stratigraphy
GEOL 460  Geochemistry
MATH 225  Introductory Matrix Theory
MATH 415  Applied Linear Algebra
MATH 285  Intro Differential Equations
MATH 441  Differential Equations
MCB 100  Introductory Microbiology
MCB 101  Intro Microbiology Laboratory
PHYS 213  Univ Physics: Thermal Physics
PHYS 214  Univ Physics: Quantum Physics
STAT 420  Methods of Applied Statistics
TAM 210  Introduction to Statics
TAM 211  Statics

1  Students who decide to follow the curriculum after first taking GEOL 100
or GEOL 103 should enroll in GEOL 208. GEOL 100 or GEOL 103 will be
accepted as a substitute for GEOL 107, but students should be aware
that these courses are not intended for science majors.

2  GEOL 417 is a 6-hour summer field course taught off campus.

Information listed in this catalog is current as of 09/2017