

GEOLOGY: Bachelor of Science

(124 cr)

Keene State College

2009-2010 Catalog

*Meet with a faculty advisor in Geology to discuss your academic plans.
This sheet is for general advising purposes only.*

MAJOR REQUIREMENTS (64 credits)

Core Courses (28 credits)

- INGEOL 151 Physical Geology
- GEOL 152 Evolution of the Earth
- GEOL 301 Mineralogy
- GEOL 302 Igneous and Metamorphic Petrology
- GEOL 305 Paleontology
- GEOL 306 Sedimentation and Stratigraphy
- GEOL 403 Structural Geology

Upper-level Electives: Choose a minimum of *three* additional 300/400-level courses from the following to bring credits in Geology to 40 (12 credits)

- GEOL 309 Geomorphology
- GEOL 310 Glacial Geology
- GEOL 315 Environmental Geology
- GEOL 412 Environmental Geochemistry
- GEOL 460 Hydrogeology
- GEOL 490 Advanced Special Topics (1-4 credits)
- GEOL 498 Independent Study (1-4 credits)

Related Science/Math Courses (24 credits)

- INCHEM 111 General Chemistry I
- CHEM 112 General Chemistry II
- MATH 151 Calculus I
- INPHYS 141 College Physics I **-or-** INPHYS 241 University Physics I
- PHYS 142 College Physics II **-or-** PHYS 242 University Physics II
- MATH 141 Introductory Statistics* **-or-** MATH 152 Calculus II

Geology majors are strongly advised to take one of the following Geography courses:

GEOG 324 Vector GIS, GEOG 325 Map Analysis and Cartographic Design,
GEOG 326 Raster GIS, or GEOG 327 Remote Sensing and the Environment.
(*The prerequisite for GEOG 324, 325 and 326 is ISGEOG 204 or GEOG 221.*)

*I-prefixed courses may also be used to fulfill Integrative Studies requirements; credits count once.
MATH 141 will fulfill the Integrative Studies Program IQL requirement; credits count once.

Integrative Studies Program (ISP) Requirements: 44 cr

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Integrative Studies classes will make up one-third of your undergraduate education. With both lower- and upper-level requirements, these classes are meant to be taken across your four years. Don't just fill in the blanks, look for classes that intrigue you.

Foundations

- ITW: Thinking & Writing** *(Take in either your first or second semester.)*
- IQL: Quantitative Literacy** *(Take within your first three semesters.)*

Perspectives

*Only one course in any single discipline can be used to fulfill your Integrative Studies requirements within the **Perspectives** area. Disciplines are shown below in **BOLD** (such as **INBIO**) and may appear in more than one category (such as **IAENG** and **IHENG**). Write the course number and title of the classes you are taking in the spaces below. To review majors, courses and additional information, go to the on-line catalog: www.keene.edu/catalog.*

IA: Arts – *One course beginning with IA: IAART, IAENG, IAMU or IATAD.*

IH: Humanities – *Two courses in two different disciplines beginning with IH: IHAMST, IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHGS, IHHIST, IHJRN, IHPHIL, IHSP.*

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IA/IH: One additional course in either Arts or Humanities in a discipline not used above.

IN: Natural Sciences – *Two courses in two different disciplines beginning with IN: INASTR, INBIO, INCHEM, INGEOL, INMET or INPHYS.*

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IS: Social Sciences – *Two courses in two different disciplines beginning with IS: ISANTH, ISECON, ISGEOG, ISPOSC, ISPYSC or ISSOC.*

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Interdisciplinary

II: One course in any discipline (even if already used in Perspectives) beginning with II:

NOTE: *In ISP, all students must complete a minimum of 24 credits at the 100-200 level and a minimum of 8 credits at the 300-400 level. A total of 24 100-200 level ISP credits (including both ITW and IQL) must be completed before taking a 300-400 level class.*

*Check your major requirements to see if any may also be used to fulfill an Integrative Studies requirement (look for the "I" prefix). Remember, however: credits count **once**.*