

**KEENE STATE COLLEGE
BACHELOR OF SCIENCE
GEOLOGY**

It is the student's responsibility to follow the **official** requirements of the degree, found in the Keene State College catalog. This planning sheet is for advising purposes.

Name: _____ Student I.D.#: _____
 Institution(s) _____
 Attended: _____ Credits: _____
 _____ Update: _____ =

I. GENERAL EDUCATION minimum 42 credits

A. English Language Competence: ENG 101 is required of all students.

ENG 101: _____

B. Arts & Humanities: A minimum of five courses totaling at least 15 credits as follows:

One course in Literature _____
 One course in literature, which may be any 200 or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312. French 303 and Spanish 303 may also be used to fulfill this requirement.

HIST _____ ART, FILM, MU or TAD _____
 (for teacher certification, a U.S. History course is required)

Two courses from Arts & Humanities disciplines: AMST, ART, COMM, FILM, ENG, FR, GER, HIST, JRN, ML, MU, PHIL, SP, TAD or an approved interdisciplinary course (WS 201* or an IDAH course).

C. Social Sciences: A minimum of four courses totaling at least 12 credits in **three** or more of the Social Science disciplines: ECON, GEOG, POSC, PSYC, SOC, or an approved interdisciplinary course (WS 201* or an IDSS). (for teacher certification, a geography course is required)

D. Sciences/Math: A minimum of four courses totaling at least 12 credits as follows: One course in BIOLOGY. One course in a PHYSICAL SCIENCE (ASTR, CHEM, GEOL, MET, PHYS) Two courses from Sciences/Math disciplines: ASTR, BIO, CHEM, CS, ENST, GEOL, MATH, MET, PHYS or an approved interdisciplinary course (IDSM).

BIO 151/152: Life: Diversity/Lab _____ 4 CHEM 111/115 General Chemistry I _____ 4

MATH 151: Calculus I _____ 4 PHYS 141/142: College Physics I _____ 4
OR
 PHYS 241/242: University Physics

*WS 201 may be used only once, to fulfill either an Arts & Humanities or Social Sciences General Education requirement.

II. MAJOR REQUIREMENTS 40 credits

GEOL 201: Intro Physical Geology	___	<u>4</u>	GEOL 302: Petrology	___	<u>4</u>
OR			GEOL 303: Structural Geology	___	<u>3</u>
GEOL 100/101: Persp. of Earth & lab	___	3/1	GEOL 305: Paleontology	___	<u>3</u>
GEOL 202: Historical Geology	___	<u>4</u>	GEOL 306: Stratigraphy & Sediment.	___	<u>3</u>
GEOL 301: Mineralogy	___	<u>4</u>			

Geology Electives: Four courses (12 credits) at the 300 level or higher. A summer field course is recommended, especially for those planning graduate work. ASTR 307 may be used to satisfy part of this requirement.

GEOL _____	___	<u>3</u>	GEOL _____	___	<u>3</u>
GEOL _____	___	<u>3</u>	GEOL _____	___	<u>3</u>

Select One of The Following:

GEOG 323: Cartography & Surveying	___	<u>3</u>	GEOL 206: Oceanography	___	<u>3</u>
GEOG 325: Cartog. & Comp. Mapping	___	<u>3</u>	MET 225: Meteorology	___	<u>3</u>
GEOG 326: Geographic Info. Systems	___	<u>3</u>			
GEOG 327: Intro to Remote Sensing.	___	<u>3</u>			

Related Fields: The following courses are required for a geology major and may also be used to fulfill general education requirements. Credit will count once toward graduation requirements.

BIO 151/151: Life: Diversity/lab	___	<u>4</u>	CHEM 111/115: General Chem i/lab	___	<u>4</u>
MATH 151: Calculus I	___	<u>4</u>	CHEM 112/116: General Chem II/lab	___	<u>4</u>
PHYS 141: College Physics I AND	___	<u>4</u>	Select one of the following		
PHYS 142: College Physics II	___	<u>4</u>	MATH 141: Statistics		
OR			MATH 152: Calculus II		
PHYS 241: University Physics I AND	___	<u>4</u>	CS (any CS course) _____	___	3
PHYS 242: University Physics II	___	<u>4</u>			

ELECTIVES:

Pick additional courses of your choice to bring your total number of credits earned to 126.

If you wish to use transferred courses toward major/minor requirements you must use the Course Substitution process. Contact the Academic and Career Advising Center for more information.

FOR TEACHER CERTIFICATION:

By completing the teacher education option, students are prepared for certification as earth – space science teachers in secondary schools. In order to meet state standards, courses selected within the general education requirements should include a U.S. history course, and a geography course.

Orientation

ESEC 100: Intro to Teaching ___ 1

Learners

*ESEC 150: Development, Exceptionality and Learning I ___ 3

•ESEC 250: Development, Exceptionality and Learning II ___ 3

Fundamentals

•*ESEC 282: Literacy in Content Areas ___ 3

Settings

•ESEC 320: Ed. Environments/Practices ___ 3

Methodology

•ESEC 385: Methods: Secondary ___ 3

•ESEC 386: Methods: Field Experience ___ 3

Systems

•ESEC 450: Seminar: Ed. Principles ___ 3

Practice

•ESEC 460: Student Teaching ___ 12

The following course is highly recommended

Pedagogy

•ESEC 387: Creating Soc. Context for Lrng ___ 3

* Requires a minimum of three hours of field work in the schools or service learning.

• Admission into Teacher Education is required for these courses.