

**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 _____

Any English course other than Eng 101, 202, 203, 204, 208, 301, 302, 303, 304, 308, 312.
 FR, GER or SP 498 are appropriate when topics focus on French, German or Spanish literature.

HIST _____ ART, COMM, 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: College Physics I _____ _4_

OR
 PHYS 241: 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	___	<u>3/1</u>	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 220: Climatology	___	<u>3</u>
GEOG 326: Geographic Info. Systems	___	<u>3</u>	MET 225: Meteorology	___	<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)	___	<u>3</u>
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.