

**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, 205, 301, 302, 303, 310, 311, 382.
 FR 340 or 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)

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

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 (designated 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 (designated 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

II. MAJOR REQUIREMENTS 40 credits

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

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 _____	___	3	GEOL _____	___	3
GEOL _____	___	3	GEOL _____	___	3

Select One of The Following:

GEOG 323: Cartography & Surveying	___	3	GEOL 206: Oceanography	___	3
GEOG 325: Cartog. & Comp. Mapping	___	3	MET 220: Climatology	___	3
GEOG 326: Geographic Info. Systems	___	3	MET 225: Meteorology	___	3
GEOG 327: Intro to Remote Sensing.	___	3			

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	___	4	CHEM 111/115: General Chem 1/lab	___	4
MATH 151: Calculus I	___	4	CHEM 122/126: General Chem II/lab	___	4
PHYS 141: College Physics I	___	4			
PHYS 142: College Physics II	___	4			
OR			Select one of the following		
PHYS 241: University Physics I	___	4	MATH 141: Statistics		
PHYS 242: University Physics II	___	4	MATH 152: Calculus II		
			CS : _____	___	3

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 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
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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
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Settings

ESEC320: Ed. Environments/Practices	___	3
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Methodology

ESEC 385: Methods: Secondary	___	3
ESEC 386: Methods: Field Experience	___	3

Systems

ESEC 450: Seminar: Ed. Principles	___	3
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Practice

ESEC 460: Student Teaching	___	12
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The following course is highly recommended

Pedagogy

ESEC 387: Creating Soc. Context for Lrng	___	3
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* requires a minimum of three hours of field work in the schools or service learning,

