

**KEENE STATE COLLEGE
BACHELOR OF SCIENCE
ENVIRONMENTAL STUDIES
ENVIRONMENTAL SCIENCE OPTION**

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

- 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 _____

ENG 202: Expository Writing _____

One additional course 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 IDAH).

- C. **Social Sciences:** Four courses totaling at least 12 credits in the disciplines listed below.

POSC 201: Intro to POSC _____ ECON 202: Microeconomics _____

GEOG 204: Physical Geography _____

One additional course from Social Science disciplines: ECON, GEOG, POSC, PSYC, SOC or an approved interdisciplinary course (WS 201* or IDSS).

- D. **Sciences/Math:** A minimum of four courses totaling at least 12 credits as follows: One course in BIOLOGY (BIO 151/152 required). One course in a PHYSICAL SCIENCE (GEOL 201 is required). MATH 141 is required. One additional course from Sciences/Math disciplines: ASTR, BIO, CHEM, CS, ENST, GEOL, MATH, MET, PHYS or an approved interdisciplinary course (IDSM).

BIO151/152: Life: Diversity/lab _____ GEOL 201: Intro Physical Geology _____

MATH 141: Introductory Statistics _____

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

MAJOR REQUIREMENTS Environmental Studies Core: 35 credits (including General Education)

ENVIRONMENTAL STUDIES CORE:

ENST 100: Introduction to Environmental Studies	___ 3	ENST 395: Junior Seminar	___ 3
ENST 200: Intermediate Environmental Studies	___ 3	ENST 495: Senior Seminar	___ 3

ENVIRONMENTAL SCIENCE OPTION: (42-46 credits)

BIO 153/154 Life Processes & Lab	___ 4	MATH 130: Precalc or 151: Calculus	___ 3/4
CHEM 111/115: General Chem I & Lab	___ 4	One from the following:	
CHEM 112/116: General Chem II & Lab	___ 4	GEOL 206: Oceanography	___ 3
PHYS 141: College Physics I	___ 4	MET 220: Climatology	___ 3
PHYS 142: College Physics II	___ 4	MET 225: Meteorology	___ 3

SPECIALIZATION REQUIREMENTS: 16–19 credits in either Biology, Chemistry, or Geology as outlined below; or in an individualized specialization approved by the ENST Steering Committee in advance.

Environmental Biology Specialization: (16-17 credits)

BIO 252/256: Ecology and Evolution & Lab	___ 5	BIO 456: Research Methods	___ 2
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One Lecture Course:

BIO 251: Genetics	___ 3
BIO 253 Physiology of Plants and Animals	___ 3

One Ecology Course:

BIO 451: Population Ecology	___ 3
BIO 452: Community & Ecosystems Ecol	___ 3
BIO 454: Ecological Physiology	___ 3

One Organismal Course:

BIO 322: Flowering Plant Biology	___ 4	BIO 334: Vertebrate Zoology	___ 4
BIO 325: Dendrology	___ 4	BIO 351: Ornithology	___ 4
BIO 333: Invertebrate Zoology	___ 4	BIO 352: Entomology	___ 3

Environmental Chemistry Specialization: (16–18 credits)

CHEM 221/225: Organic Chemistry I & Lab	___ 4	CHEM 352/356: Environmental Chemistry	
CHEM 222/226: Organic Chemistry II & Lab	___ 4	Analysis & Lab	___ 5

One of the following:

CHEM 382/386: Occupational Safety & Health and Lab	___ 4	BIO 315: General Microbiology	___ 4
CHEM 401/403: Biochemistry & Lab	___ 5	GEOL 412: Geochemistry	___ 3

Environmental Geology Specialization: (17–19 credits)

GEOL 202: Historical Geology	___ 4
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Two environmental Geology courses:

GEOL 315: Environmental Geology	___ 4	GEOL 412: Geochemistray	___ 3
		GEOL 460: Hydrology	___ 4

One structural Geology course:

GEOL 303: Structural Geology	___ 3	GEOL 306: Stratigraphy	___ 3
		GEOL 309: Geomorphology	___ 3

One map skills course:

GEOG 323: Cartography and Surveying	___ 4	GEOG 326: Geographical Info Systems	___ 4
		GEOG 327: Intro to Remote Sensing	___ 3

ELECTIVES:

Select courses to bring total amount of credits 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.