

**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 _____

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 _____

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 _____

*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.

6/04/01