

KEENE STATE COLLEGE
BACHELOR OF SCIENCE
BIOLOGY

It is the student's responsibility to follow the **official** requirements of their degree, which are 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 101, 202, 203, 204, 205, 301, 302, 303, 310, 311, 382. FR 340, or FR, GER, or SP 498 (when topics focus on French, German or Spanish Literature)

HIST _____ ART, COMM, FILM, MU or TAD _____

Two courses from Arts & Humanities disciplines: AMST, ART, COMM, FILM, ENG, FR, GER, HIST, IDAH, JRN, ML, MU, PHIL, SP or TAD.

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. One course may be an approved interdisciplinary course (designated IDSS).*

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 _____ PHYSICAL SCIENCE _____

*You are encouraged to complete at least one interdisciplinary course.

II. **MAJOR REQUIREMENTS** (75-76 credits) *Asterisked courses may apply toward Science/Math Gen. Ed. requirements. Credits count once toward graduation. Complete Bio 200/201 & 202/203 in the 1st year.

A. **Biology Core:**

*BIO 200/201: Life: Diversity/Lab	___ 3/1	BIO 405/406: Cell & Molecular	
*BIO 202/203: Life: Processes/Lab	___ 3/1	Biology/Lab	___ 3/1
BIO 301/302: Genetics/Lab	___ 3/1	Evolution: One of the following:	
Physiology:		BIO 340: Evolution	
BIO 387: Experimental Physiology	___ _1_	OR	
One from the following		BIO/GEOL 440: Evol. of Life & Earth	___ _3_
BIO 384: Comparative Animal Physiology OR	___ _3_	Organismal Biology: One of the following:	
BIO 385: Ecological Physiology	___ _3_	BIO 322: Flowering Plant Taxonomy	___ 4
Ecology:		BIO 325: Dendrology	___ 4
BIO 453: Experimental Ecology	___ _1_	BIO 328: Mushroom Identification	___ 3
One of the following:		BIO 333: Invertebrate Zoology	___ 4
BIO 451: Population Ecology		BIO 334: Vertebrate Zoology	___ 4
OR		BIO 351: Ornithology	___ 4
BIO 452: Community & Ecosystem Ecology	___ _3_	BIO 352: Entomology	___ 3
		BIO 415: Microbial Diversity	___ 4

B. **Biology Electives:** minimum of 13 credits at 300-level or higher, to bring total Biology credits to 44

C. **Related Subjects:** Required for Biology Major and may be used to fulfill General Education requirements. Complete Intro Chemistry sequence in the first year. Credits count once toward graduation requirements.

*CHEM 121: General Chemistry I	___ _3_	*PHYS 141: College Physics I	___ _4_
*CHEM 125: Exp. General Chemistry I	___ _1_	*PHYS 142: College Physics II	___ _4_
*CHEM 122: General Chemistry II	___ _3_	MATH 151: Calculus I	___ _4_
*CHEM 126: Exp. General Chemistry II	___ _1_		

One of the following:

CHEM 212/216: Organic Chemistry/Lab OR	___ 3/1	*MATH 141: Statistics	
CHEM 221/225: Organic Chemistry I/Lab	___ 3/1	*PSYC 251: Psychological Statistics	
One of the following:		*SOC 302: Stats for Behavioral Sci.	___ _3_
CHEM 251/255: Quant. Analysis & Exp. Quant. Analysis	___ 3/2		
CHEM 331/337: Biochemistry/Lab	___ 3/1		
CHEM 351/355: Chem Analysis of the Environment/Lab	___ 3/1		

III. ELECTIVES:

Pick additional courses of your choice to bring your total number of credits earned to 126.
If you wish to use transfer credits toward major/minor requirements you must use the Course Substitution process. Contact the Academic Advising Center for more information.

FOR TEACHER CERTIFICATION: Courses selected within the General Education requirements must include a U.S. history course, a geography course, and GEOL 201.

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

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

Settings
ESEC 320: Ed. Environments/Pract. ___ _3_

ESEC 387: Creating Social Context for
Learning ___ _3_

2.2/99

2. 12/98