

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 Eng 101, 202, 203, 204, 205, 301, 302, 303, 310, 311, 382, 410. FR 340 or FR, GER or SP 498 are acceptable 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	___ <u>3</u>	OR	
One from the following		BIO/GEOL 440: Evol. of Life & Earth	___ <u>3</u>
BIO 384: Comparative Animal Physiology	___ <u>3</u>	Organismal Biology: One of the following:	
BIO 385: Ecological Physiology	___ <u>3</u>	BIO 322: Flowering Plant Taxonomy (4)	
Ecology:		BIO 325: Dendrology (4)	
BIO 453: Experimental Ecology	___ <u>1</u>	BIO 328: Mushroom Identification	
One of the following:		BIO 333: Invertebrate Field Zoology	
BIO 451: Population Ecology		BIO 334: Vertebrate Field Zoology	
OR		BIO 351: Ornithology	
BIO 452: Community & Ecosystem Ecology	___ <u>3</u>	BIO 352: Entomology	___ <u>4</u>

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

_____	___	_____	___
_____	___	_____	___

Biology credits must total at least 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	___ <u>3</u>	*PHYS 141: College Physics I	___ <u>4</u>
*CHEM 125: Exp. General Chemistry I	___ <u>1</u>	*PHYS 142: College Physics II	___ <u>4</u>
*CHEM 122: General Chemistry II	___ <u>3</u>	MATH 151: Calculus I	___ <u>4</u>
*CHEM 126: Exp. General Chemistry II	___ <u>1</u>	One of the following:	
CHEM 212/216: Organic Chemistry/Lab	___ 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.	___ <u>3</u>
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.

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

ESEC 282: Literacy in Content Areas _____ _3_

Settings

ESEC320: 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 Social Context for Lrng _____ _3_