

KEENE STATE COLLEGE  
BACHELOR OF ARTS  
CHEMISTRY

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** 42 credits minimum

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 is required)

Two courses 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 \_\_\_\_\_ PHYSICAL SCIENCE \_\_\_\_\_

(for teacher certification a Geology course and Phys 210: History of Science is required)

**MAJOR REQUIREMENTS** 65 CREDITS

42 credits

CHEM 111: General Chemistry I	___ 3	CHEM 251: Quantitative Analysis	___ 3
CHEM 115: General Chem Lab I	___ 1	CHEM 255: Exp.Quantitative Analysis	___ 2
CHEM 112: General Chemistry II	___ 3	CHEM 341: Physical Chemistry	___ 3
CHEM 116: General Chemistry Lab II	___ 2	CHEM 345: Experimental Physical Chem. I	___ 2
CHEM 221: Organic Chemistry I	___ 3	CHEM 342: Physical Chem II	___ 3
CHEM 225: Experimental Organic Chem. I	___ 1	CHEM 346: Experimental Physical Chem II	___ 2
CHEM 222: Organic Chemistry II	___ 3	CHEM 401: Biochemistry	___ 3
CHEM 226: Experimental Organic Chem. II	___ 1	CHEM 403: Biochemistry Lab	___ 1
		CHEM ___: _____	___ 3
		CHEM ___: _____	___ 3

**RELATED FIELDS\*\*** 23 crs

BIO 153: Life Processes	___ 3	**MATH 151: Calculus I	___ 4
BIO 154: Life Processes Lab	___ 1	**MATH 152: Calculus II	___ 4
(Bio 254: Cell Biology is recommended)		**PHYS 141: College	
Physics I	___ 4		
**MATH 141: Introductory Statistics	___ 3	**PHYS 142: College Physics II	___ 4

\*\* May be used to satisfy Science/Math General Education requirements. Credits will count once toward graduation requirements.

III. **ELECTIVES:**

Pick additional courses of your choice to bring your total number of credits earned to 120.

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.

IV. **TEACHER CERTIFICATION:**

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: Introduction to Teaching \_\_\_ \_1\_

**Learners**

\*ESEC 150: Development, Exceptionality and Learning I \_\_\_ \_3\_

ESEC 250: Development, Exceptionality and Learning II \_\_\_ \_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

**Fundamentals**

\*ESEC 282: Literacy in the Content Areas    \_\_\_  \_3\_

**Settings**

ESEC 320: Educational Environments/  
Practices    \_\_\_  \_3\_

**The following course is highly recommended**

**Pedagogy**

ESEC 387: Creating Social Context for Lrng \_\_\_3\_

\*Courses designated with an asterisk require a minimum of one to three hours of field work in the schools or service learning.

