

**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, 208, 301, 302, 303, 304, 308, 312.

FR, GER or SP 498 are acceptable when topics focus on FR, GER or SP literature.

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

(For teacher certification, a U.S. history course 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 (WS 201* or an IDAH course).

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 (WS 201* or an IDSS course). (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 (IDSM). **See General Education eligible requirements for the major on back.

BIO _____ PHYSICAL SCIENCE _____

(For teacher certification a Geology course and Phys 210: History of Science are required.)

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

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 I	___ 3
CHEM 116: General Chemistry Lab II ___ 2		CHEM 345: Experimental Physical Chem. I ___ 2	
CHEM 221: Organic Chemistry I	___ 3	CHEM 342: Physical Chemistry 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 an 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_

Fundamentals

*ESEC 282: Literacy in the Content Areas ___ _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

Settings

ESEC 320: Educational Environments/
Practices

___ _3_

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.

6/04/01