

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 _____

One course in literature, which may be any 200 or 300-level English course except 202, 203, 204, 208, 301, 302, 303, 304, 308, 312. FR 303 and Spanish 303 may also be used to fulfill this requirement.

HIST _____ ART, 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_

Settings

ESEC 320: Educational 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_

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

6/26/02