

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 only.

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 _____

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).

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 IDAH).

BIO _____ PHYSICAL SCIENCE _____

MAJOR REQUIREMENTS 57 CREDITS

42 credits

CHEM 121: General Chemistry I	___ 3_	CHEM 251: Quantitative Analysis	___ 3_
CHEM 125: Experimental General I	___ 1_	CHEM 255: Experimental Quantitative Analysis	___ 2_
CHEM 122: General Chemistry II	___ 3_	CHEM 331/337: Biochemistry/Lab	___ 3/1
CHEM 126: Experimental General Chem.II	___ 1_	CHEM 341: Physical Chemistry	___ 3_
CHEM 221: Organic Chemistry I	___ 3_	CHEM 345: Exper. Physical.Chemistry.I	___ 2_
CHEM 225: Experimental Organic Chem. I	___ 1_	CHEM 342: Physical Chem II	___ 3_
CHEM 222: Organic Chemistry II	___ 3_	CHEM 346: Experimental Physical Chem II	___ 2_
CHEM 226: Exper.I Organic Chem. II	___ 1_	CHEM _____	___ 3_
		CHEM _____	___ 4_

(Chem electives must total 7 crs.)

RELATED FIELDS** 15 CREDITS MINIMUM IN MATHEMATICS AND PHYSICS

MATH 141: Intro Statistics	___ 3_	PHYS 141: College Physics I	___ 4_
MATH 151: Calculus I	___ 4_	PHYS 142: College Physics II	___ 4_

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

Note: Since so many required courses have prerequisites, you must check the catalog carefully to make sure you have fulfilled the requirements in time For example, Physical Chemistry (Chem 341) requires a full year of both Math (151, 152) and Physics (141,142). Biochemistry (Chem 331 requires a 200-level Biology course, which could be used to fulfill the Biology General Education requirement.

III. **ELECTIVES:**

Pick additional courses of your choice to bring your total number of credits earned to 126.

If you wish to use transferred courses toward major/minor requirements you must use the course substitution process. Contact the Academic Advising Center for more information.

FOR 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.

*requires a minimum of one to three hours of field work in the schools or service learning.

Orientation

ESEC 100: Introduction to Teaching ___ 1_

Learners

Methodology

ESEC 385: Methods: Secondary ___ 3_

ESEC 386: Methods: Field Experience ___ 3_

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_

Systems

ESEC 450: Seminar: Ed. Principles ___ _3_

Practice

ESEC 460: Student Teaching ___ 12

The following course is highly recommended

Pedagogy

ESEC 387: Creating Soc'l Context for Lrng___ _3_

