

KEENE STATE COLLEGE
 BACHELOR OF SCIENCE
 CHEMISTRY/PHYSICS

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.
 FR 340 or FR, GER or SP 498 (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, ENG, FILM, 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 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 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 _____

*MATH 151: CALCULUS I _____ *MATH 152: CALCULUS II _____

II. MAJOR REQUIREMENTS

47 credits

CHEM 121: General Chemistry I	___ 3_	PHYS 241: University Physics I	___ 4_
CHEM 125: Exp. General Chem I	___ 1_	PHYS 242: University Physics II	___ 4_
CHEM 122: General Chemistry II	___ 3_	PHYS 245: University Physics III	___ 4_
CHEM 126: Exp. General Chem II	___ 1_	PHYS 260: Electronics	___ 4_
CHEM 212: Organic Chemistry	___ 3_	Physics Electives: 300 level & up	
CHEM 216: Exp. Organic Chemistry	___ 1_	PHYS _____	___ 3_
CHEM 341: Physical Chemistry I	___ 3_	PHYS _____	___ 3_
CHEM 345: Exp. Phys. Chemistry I	___ 2_	*MATH 251: Multivariate Calculus	___ 4_
CHEM _____	___ 4_		
CHEM _____	___ 4_		

*Prerequisites for major courses may also apply to the Science/Math General Ed. requirements.

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. By completing the Teacher Education option, students are prepared for certification as physical science teachers in secondary schools. Those individuals interested in teaching physics should contact the Keene State Certification officer for more information.

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

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 Cont Areas* ___ 3_

Settings

ESEC 320: 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 Learning ___ 3_

2.2/99

