

**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, 410.
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, 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.

** Three-hundred (300) level or above.

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.

Orientation

ESEC 100: Intro to Teaching _____ _1_

Learners

Methodology

ESEC 385: Methods: Secondary _____ _3_

ESEC 386: Methods: Fld Exper. _____ _3_

ESEC 150: Development, Exceptionality
and Learning I _____3_

ESEC 250: Development, Exceptionality
and Learning II _____3_

Fundamentals

ESEC 282: Literacy Cont. Areas _____3_

Settings

ESEC 320: Ed. 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 Social Contexts
for Learning _____3_

