

KEENE STATE COLLEGE  
 BACHELOR OF SCIENCE  
 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**

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, 411, 412, 413, 414), FR 340 or FR, GER or SP 498 are acceptable 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.

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C. **Social Sciences:** A minimum of four courses totaling at least 12 credits in **three** or more of the Social Science disciplines: ECON, GEOG, IDSS, POSC, PSYC, SOC.

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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, IDSM, MATH, MET, PHYS.

BIO \_\_\_\_\_ PHYSICAL SCIENCE \_\_\_\_\_

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II. **MAJOR REQUIREMENTS** 57 credits

CHEM 121: General Chemistry I	___	<u>3</u>	CHEM 251: Quantitative Analysis	___	<u>3</u>
CHEM 125: Exp. General Chem I	___	<u>1</u>	CHEM 255: Exp. Quan. Analysis	___	<u>2</u>
CHEM 122: General Chemistry II	___	<u>3</u>	CHEM 331/337: Biochemistry/lab	___	<u>3/1</u>
CHEM 126: Exp. General Chemistry II	___	<u>1</u>	CHEM 341: Physical Chemistry	___	<u>3</u>
CHEM 221: Organic Chemistry I	___	<u>3</u>	CHEM 345: Exp. Physical Chem I	___	<u>2</u>
CHEM 225: Exp. Organic Chemistry I	___	<u>1</u>	CHEM 342: Physical Chemistry II	___	<u>3</u>
CHEM 222: Organic Chemistry II	___	<u>3</u>	CHEM 346: Exp. Physical Chem II	___	<u>2</u>
CHEM 226: Exp. Organic Chemistry II	___	<u>1</u>	CHEM : _____	___	<u>3</u>
			CHEM : _____	___	<u>4</u>

**RELATED FIELDS\*\*** 15 CREDIT MINIMUM IN MATHEMATICS AND PHYSICS

MATH 141: Intro Statistics	___	<u>3</u>	PHYS 141: College Physics I	___	<u>4</u>
MATH 151: Calculus (MATH 152 is highly recommended)	___	<u>4</u>	PHYS 142: College Physics II	___	<u>4</u>

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

**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 Content 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 Lrng \_\_\_ 3

