

**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** 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. French 303 and Spanish 303 may also be used to fulfill this requirement.

HIST \_\_\_\_\_ ART, 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 (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).

\_\_\_\_\_  
\_\_\_\_\_

D. **Sciences/Math:** A minimum of four courses totaling at least 12 credits as follows: One course in BIOLOGY. The other requirements are fulfilled by three of the required courses from related fields.

BIO \_\_\_\_\_ PHYS 141: College Physics I **OR** \_\_\_\_\_  
(200-level recommended) PHYS 241: University Physics I \_\_\_\_\_

MATH 141: Introductory Statistics \_\_\_\_\_ MATH 151: Calculus I \_\_\_\_\_

\*WS 201 may be used only once, to fulfill either an Arts & Humanities or Social Sciences General Education requirement.

**MAJOR REQUIREMENTS** 69 crs.

**Chemistry Core:** (43 credits)

CHEM 111: General Chemistry I	___ 3	CHEM 341: Physical Chemistry I	___ 3
CHEM 115: General Chemistry I Lab	___ 1	CHEM 345: Physical Chemistry I Lab	___ 2
CHEM 112: General Chemistry II	___ 3	CHEM 342: Physical Chemistry II	___ 3
CHEM 116: General Chemistry II Lab	___ 1	CHEM 346: Physical Chemistry II Lab	___ 2
CHEM 221: Organic Chemistry I	___ 3	CHEM 363: Inorganic Chemistry	___ 3
CHEM 225: Organic Chemistry I Lab	___ 1	CHEM 365: Inorganic Chemistry Lab	___ 1
CHEM 222: Organic Chemistry II	___ 3	CHEM 382: Occupational Health & Safety	___ 3
CHEM 226: Organic Chemistry II Lab	___ 1	CHEM 454: Instrumental Analysis	___ 3
CHEM 251: Quantitative Analysis	___ 3	CHEM 456: Instrumental Analysis Lab	___ 2
CHEM 255: Quantitative Analysis Lab	___ 2		

II. **ELECTIVES within the major:** \_\_\_ minimum 7 credits

Students must take at least 7 credits of chemistry at the 300 -evel or higher. Independent study is encouraged to provide an undergraduate research experience. For students interested in an interdisciplinary focus, 3 of the 7 credits may be from an approved list outside chemistry, including Physics 260 Electronics, Biology 405 Molecular Biology, or Geology 412 Geochemistry.

III. **\*RELATED FIELDS:** 19 credits

MATH 141: Introductory Statistics*	___ 3	PHYS 141: College Physics <b>IOR</b> *	___ 4
MATH 151: Calculus I*	___ 4	PHYS 241: University Physics I	___ 4
MATH 152: Calculus II	___ 4	PHYS 142: College Physics II <b>OR</b>	___ 4
		PHYS 242: University Physics II	

\*MATH 141, MATH 151, PHYS 141 (or PHYS 241) are used to satisfy General Education requirements.)

IV. **ELECTIVES:**

Select 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 and Career Advising Center for more information.