

**KEENE STATE COLLEGE
BACHELOR OF SCIENCE-INDUSTRIAL 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

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, FILM, MU or TAD _____

Two courses from Arts & Humanities disciplines: AMST, ART, ENG, FILM, 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 Social Science disciplines: ECON, GEOG, POSC, PSYC, SOC. One course may be 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 IDSM).*

BIO _____ PHYSICAL SCIENCE _____

*You are encouraged to complete at least one interdisciplinary course.

II. **CHEMISTRY CORE** 75 credits

CHEM 121: General Chemistry I	___	___	CHEM 341: Physical Chemistry	___	___
CHEM 125: Exp. General Chemistry I	___	___	CHEM 342: Physical Chemistry II	___	___
CHEM 122: General Chemistry II	___	___	CHEM 345: Exp. Physical Chemistry	___	___
CHEM 126: Exp. General Chemistry II	___	___	CHEM 346: Exp. Physical Chemistry II	___	___
CHEM 221: Organic Chemistry I	___	___	CHEM 361: Polymer Chemistry	___	___
CHEM 225: Exp. Organic Chemistry I	___	___	CHEM 362: Inorganic Chemistry	___	___
CHEM 222: Organic Chemistry II	___	___	CHEM 382: Occupational Safe & Health	___	___
CHEM 226: Exp. Organic Chemistry II	___	___	CHEM 410: Advanced Industrial Chem.	___	___
CHEM 251: Quantitative Analysis	___	___	CHEM 451: Instrumental Analysis	___	___
CHEM 255: Exp. Quantitative Analysis	___	___	CHEM 455: Instrumental Analysis lab	___	___
CHEM 310: Intro. Industrial Chemistry	___	___	CHEM 470: Industrial Chemistry Lab	___	___
			CHEM 495: Seminar	___	___

Select One of the Following: 4 credits

PHYS 260: Electronics	___	___	CHEM 432: Intro Medicinal Chemistry	___	___
CHEM 321/325: Organic Chemistry III	___	___	CHEM 452: Intro Pharmaceutical Chem.	___	___
CHEM 331/337: Biochemistry lab	___	___	CHEM 461: X-Ray Crystallography	___	___
			CHEM 490: Advanced Special Topics	___	___

RELATED FIELDS: 19 credits May apply toward Science/Math component of General Education. Credits will count once toward graduation requirements.

MATH 141: Intro Statistics	___	___	PHYS 141: College Physics I	___	___
MATH 151: Calculus I	___	___	PHYS 142: College Physics II	___	___
MATH 152: Calculus II	___	___	OR		
			PHYS 241: University Physics I	___	___
			PHYS 242: University Physics II	___	___

III. **ELECTIVES:** minimum 9 credits

Select courses to reach a total of 126 credits for the degree.

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. 2. 2/99

