

CHEMISTRY-PHYSICS: Bachelor of Science

(124 cr)

Keene State College

2009-2010 Catalog

*Meet with a faculty advisor in Chemistry/Physics to discuss your academic plans.
This sheet is for general advising purposes only.*

MAJOR REQUIREMENTS (72 credits)

Core Courses (52 credits)

- INCHEM 111 General Chemistry I
- CHEM 112 General Chemistry II
- CHEM 221 Organic Chemistry I
- CHEM 222 Organic Chemistry II
- CHEM 251 Quantitative Analysis
- CHEM 342 Physical Chemistry II
- CHEM 363 Inorganic Chemistry
- INPHYS 241 University Physics I
- PHYS 242 University Physics II
- PHYS 260 Electronics
- PHYS 342 Modern Physics

Select one Chemistry Elective at the 300-level or above (4 cr)

- CHEM _____

Select one Physics Elective at the 300-level or above (4 cr)

- CHEM _____

Related Fields (20 credits)

- CS 140 Computer Programming I
- MATH 141 Introductory Statistics*
- MATH 151 Calculus I
- MATH 152 Calculus II
- MATH 251 Vector Calculus

Additional Requirements for students seeking Secondary Teacher Certification (8 cr)

- BIO 110 Molecules and Cells
- CHEM 375 Biochemistry

I-prefixed courses may also be used to fulfill Integrative Studies requirements; credits count once.

**Math 141 will fulfill the Integrative Studies Program IQL requirement; credits count once.*

Integrative Studies Program (ISP) Requirements: 44 cr

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Integrative Studies classes will make up one-third of your undergraduate education. With both lower- and upper-level requirements, these classes are meant to be taken across your four years. Don't just fill in the blanks, look for classes that intrigue you.

Foundations

- ITW: Thinking & Writing** (Take in either your first or second semester.)
- IQL: Quantitative Literacy** (Take within your first three semesters.)

Perspectives

*Only one course in any single discipline can be used to fulfill your Integrative Studies requirements within the **Perspectives** area. Disciplines are shown below in **BOLD** (such as **INBIO**) and may appear in more than one category (such as **IAENG** and **IHENG**). Write the course number and title of the classes you are taking in the spaces below. To review majors, courses and additional information, go to the on-line catalog: www.keene.edu/catalog.*

IA: Arts – *One course beginning with IA: IAART, IAENG, IAMU or IATAD.*

IH: Humanities – *Two courses in two different disciplines beginning with IH: IHAMST, IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHGS, IHHIST, IHJRN, IHPHIL, IHSP.*

_____ _____

IA/IH: One additional course in either Arts or Humanities in a discipline not used above.

IN: Natural Sciences – *Two courses in two different disciplines beginning with IN: INASTR, INBIO, INCHEM, INGEOL, INMET or INPHYS.*

_____ _____

IS: Social Sciences – *Two courses in two different disciplines beginning with IS: ISANTH, ISECON, ISGEOG, ISPOSC, ISPYSC or ISSOC.*

_____ _____

Interdisciplinary

II: One course in any discipline (even if already used in *Perspectives*) beginning with **II:**

NOTE: *In ISP, all students must complete a minimum of 24 credits at the 100-200 level and a minimum of 8 credits at the 300-400 level. A total of 24 100-200 level ISP credits (including both ITW and IQL) must be completed before taking a 300-400 level class.*

*Check your major requirements to see if any may also be used to fulfill an Integrative Studies requirement (look for the "I" prefix). Remember, however: credits count **once**.*