

CHEMISTRY: Bachelor of Arts

(120 cr)

Keene State College

2007-2008 Catalog

INTEGRATIVE STUDIES PROGRAM REQUIREMENTS (44 cr)

Note: Students must complete the **Thinking & Writing** requirement within their first two semesters and the **Quantitative Literacy** requirement within their first three semesters.

Foundations

ITW: Thinking & Writing _____
IQL: Quantitative Literacy _____

Perspectives

NOTE: Students may take only **one** course in any specific discipline within the **PERSPECTIVES** area. Disciplines are shown in **BOLD**, such as IAART.

IA: Arts – IAART, IAMU, IATAD

1 course: _____

IH: Humanities - IHCOMM, IHENG, IHFILM, IHFR, IHGER, IHHIST, IHJRN, IHML, IHPHIL, IHSP

2 courses: _____ _____

IA/IH: 1 additional course in either IA or IH

1 course: _____

IN: Natural Sciences – INASTR, INBIO, INCHEM, INGEOL, INMET, INPHYS

2 courses: _____ _____

IS: Social Sciences – ISANTH, ISCJS, ISECON, ISGEOG, ISPOSC, ISPSYC, ISSOC, ISSOSC

2 courses: _____ _____

Interdisciplinary

II: Any course beginning with II

1 course: _____

NOTE: Courses fulfilling **PERSPECTIVES** and **INTERDISCIPLINARY** requirements may be at the 100-400 level. 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 to complete the **Integrative Studies Program (ISP)**.

MAJOR REQUIREMENTS (60 cr)

Core (28 cr):

- | | |
|--|---|
| <input type="checkbox"/> INCHEM 111 General Chemistry I* | <input type="checkbox"/> CHEM 251 Quantitative Analysis |
| <input type="checkbox"/> CHEM 112 General Chemistry II | <input type="checkbox"/> CHEM 342 Physical Chemistry II |
| <input type="checkbox"/> CHEM 221 Organic Chemistry I | <input type="checkbox"/> CHEM 375 Biochemistry |
| <input type="checkbox"/> CHEM 222 Organic Chemistry II | |

Chem Electives (8 credits)

CHEM (300/400-level) _____ CHEM (300/400-level) _____

Students seeking Secondary Teacher Certification must also take:

CHEM 363: Inorganic Chemistry

Allied Discipline Requirements:

- | | |
|---|--|
| <input type="checkbox"/> BIO 110 Molecules & Cells | <input type="checkbox"/> MATH 152 Calculus II |
| <input type="checkbox"/> MATH 141 Introductory Statistics** | <input type="checkbox"/> INPHYS 141 College Physics I* |
| <input type="checkbox"/> MATH 151 Calculus I | <input type="checkbox"/> PHYS 142 College Physics II |

***NOTE:** INCHEM 111 and INPHYS 141 will satisfy Integrative Studies requirements; credits count once. MATH 141 will satisfy the IQL requirement.

Please see catalog for COMPLETE program requirements. This sheet is for general advising purposes only.

BA.CHEMISTRY: FOUR-YEAR ADVISING PLAN

FIRST YEAR – FALL SEMESTER
<ul style="list-style-type: none">• INCHEM 111: Gen Chemistry I* (4 cr)• MATH 141: Statistics** (4 cr)• INPHYS 141: College Physics I* (4 cr)• ITW 101 or other ISP requirement (4 cr)
16 credits

FIRST-YEAR – SPRING SEMESTER
<ul style="list-style-type: none">• CHEM 112: Gen Chemistry II (4 cr)• MATH 151: Calculus I (4 cr)• PHYS 142: College Physics II (4 cr)• ITW 101: Thinking and Writing (4 cr) (if not taken in the first semester)
16 credits

SECOND YEAR – FALL SEMESTER
<ul style="list-style-type: none">• CHEM 221: Organic Chemistry I (4 cr)• CHEM 251: Quantitative Analysis• MATH 152: Calculus II• ISP requirement
16 credits

SECOND YEAR – SPRING SEMESTER
<ul style="list-style-type: none">• CHEM 222: Organic Chemistry II (4 cr)• BIO 110• ISP requirement• ISP requirement
16 credits

THIRD YEAR – FALL SEMESTER
<ul style="list-style-type: none">• CHEM 375: Biochemistry• ISP requirement• ISP requirement
12 credits

THIRD YEAR – SPRING SEMESTER
<ul style="list-style-type: none">• CHEM 342: Physical Chemistry II (4 cr)• CHEM 300/400 Elective• ISP requirement• ISP requirement
16 credits

FOURTH YEAR – FALL SEMESTER
<ul style="list-style-type: none">• ISP requirement• ISP requirement• Elective• Elective
16 credits

FOURTH YEAR – SPRING SEMESTER
<ul style="list-style-type: none">• CHEM 300/400-level Elective• Elective• Elective
12 credits

*Fulfills a Perspectives/Natural Sciences requirement in Integrative Studies (credits count once).

**Fulfills IQL: Quantitative Literacy requirement in Integrative Studies (credits count once).

NOTE: Transfer students and students interested in Chemistry internships or International/National Exchange should meet with their Chemistry faculty advisor as early as possible to plan their program.