

BIOLOGY: 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 (52 cr)

Core courses (20 credits):

BIO 110 Molecules and Cells* BIO 111 Evolution*

*C or higher required to take any 200-level or higher BIO class.

BIO 210 Ecology BIO 211 Genetics BIO 212 Cells & Physiology

Take ONE course from EACH of the following four categories (16 credits):

Animal Diversity

BIO 333 Invertebrate Zoology

BIO 334 Vertebrate Zoology

BIO 335 Ornithology

Ecology & Evolution

BIO 343 Ecosystem Ecology

BIO 345 Animal Behavior

BIO 347 Plant Physiological Ecology

BIO 349 Population Genetics

Plant & Microbial Diversity

BIO 363 Plant Biology

BIO 365 Plant Evolution

BIO 367 Microbial Diversity

Cell/Molecular/Physiology

BIO 371 Ecophysiology BIO 375 Biochemistry BIO 377 Immunology

BIO 373 Neurobiology BIO 376 Molecular Biology BIO 379 Comparative Animal Physiology

Allied Discipline Requirements (16 cr):

INCHEM 111 General Chemistry I* MATH 141 Introductory Statistics**

CHEM 112 General Chemistry II INPHYS 141 College Physics I* ~or~ INGEOL 151 Intro. Physical Geology*

***NOTE:** Courses may be used to satisfy Integrative Studies requirements; credits only count once.

****NOTE:** MATH 141 will fulfill the IQL requirement.

BIOLOGY.BA: FOUR-YEAR ADVISING PLAN

FIRST YEAR – FALL SEMESTER

- BIO 110: Molecules & Cells (4 cr)
- INCHEM 111: Gen Chem I* (4 cr)
- ITW or other ISP requirement (4 cr)
- ISP requirement (4 cr)

16 credits

FIRST-YEAR – SPRING SEMESTER

- BIO 111: Evolution (4 cr)
- CHEM 112: Gen Chem II (4 cr)
- MATH 141: Intro Statistics (4 cr)**
- ITW (if not taken in the fall) or other ISP requirement (4 cr)

16 credits

SECOND YEAR – FALL SEMESTER

- BIO 210: Ecology (4 cr)
- ISP requirement (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

16 credits

SECOND YEAR – SPRING SEMESTER

- BIO 211: Genetics (4 cr)
- BIO 212: Cells & Physiology (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

16 credits

THIRD YEAR – FALL SEMESTER

- BIO 300-level requirement (4 cr)
- INPHYS 141 College Physics I* -or- INGEOL 151 Intro to Phys Geol* (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

16 credits

THIRD YEAR – SPRING SEMESTER

- BIO 300-level requirement (4 cr)
- ISP requirement (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

16 credits

FOURTH YEAR – FALL SEMESTER

- BIO 300-level requirement (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

12 credits

FOURTH YEAR – SPRING SEMESTER

- BIO 300-level requirement (4 cr)
- ISP requirement (4 cr)
- Elective (4 cr)

12 credits

Total = 120 credits

*INCHEM 111 and INPHYS 141 will fulfill Integrative Studies Natural Science (IN) requirements.

**Math 141 fulfills the IQL Foundations requirement in the Integrative Studies Program (ISP).