B.S. - Biology
Ecology & Environmental Biology Concentration
(Effective Fall 2009)

MAJOR REQUIREMENTS

I. Biology Requirements* (38 credits)

Core Courses (18 cr.):
- BIO 115 - Principles of Biology I (4) ____
- BIO 116 - Principles of Biology II (4) ____
- BIO 242 - Ecology (3) ____
- BIO 260 - Genetics (3) ____
- BIO 430 - Principles of Evolution (3) ____
- BIO 300-302 - Seminar (1) ____

Physiology elective (3-4 cr.) - choose:
- BIO 351 - Animal Physiology (3) ____
  or
- BIO 350 - Human Physiology (4) ____
  or
- BIO 352 - Plant Form & Function (3) ____

Organismal electives (6 cr.) - choose:

MUST HAVE ONE ZOOLOGY & ONE BOTANY COURSE:
- BIO 317 - Parasitology (3) ____
  or
- BIO 462 - Invertebrate Zoology (3) ____
  or
- BIO 463 - Vertebrate Zoology (3) ____
  AND
- BIO 448 - Field Botany & Plant Tax. (3) ____
  or
- BIO 455 - Algae & Aquatic Plants (3) ____

Cellular elective (3 cr.) - choose:
- BIO 220 - Microbiology (3) ____
  or
- BIO 385 - Cell Biology (3) ____

Experiential Elective (3 cr.) - choose:
- BIO 396-398 - Research ____
  or
- BIO 391-392 - Internship ____

Additional Biology Electives(4-5 cr.)

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(only 2 seminars can be used for bio credit)

* Students must earn at least a 2.0 average in Bio. 115 & 116 before upper-level Biology electives may be taken. See catalog for remediation procedure.

II. Math Requirement (4 credits)
- MAT 211 - Calculus I (4) ____

III. Chemistry Requirements (16 credits)
- CHM 121 - Chemical Bonding with lab IB (CHM 125) (4 credits) ____
- CHM 122 - Chemical Dynamics with lab IIB (CHM 126) (4 credits) ____
- CHM 221 - Organic Chemistry I with lab IIIB (CHM 225) (4 credits) ____

- CHM 227 - Introduction to Biochemistry (4) ____
  OR
- CHM 222 - Organic Chemistry II with lab IVB (CHM 226) (4 credits) ____

IV. Physics Requirements (8 credits)
- PHY 121 - Introductory Physics I (3) with PHY 123 - Physics I lab (1) ____

- PHY 122 - Introductory Physics II (3) with PHY 125 - Physics II lab (1) ____

GENERAL EDUCATION PROGRAM

I. Required Skills and Competencies
- Fluency in Writing (3 credits) ____
- Fluency in Speech (3 credits) ____

- Mathematical Competency - (satisfied with Calculus I)

- Historical Perspective (6 credits)
  - HIS 105 - World History I (3) ____
  - HIS 106 - World History II (3) ____

II. Categories of Knowledge* (33 credits)

A. Logic and Numbers for Rational Thinking (3)
- MAT 117 - Applied Statistics (4) ____

B. Linguistics, Literary, Artistic, Cultural Traditions (9)

_____ (lit.)
_____ (humanity)
_____ (humanity)

C. Biological and Physical Sciences (9)
- satisfied by major requirements

D. Political, Economic, Geographic Sciences(6)

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(ECN 101 - Macroeconomics is recommended)

E. Social and Behavioral Sciences (6)

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Free Electives (17 credits)

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Recommended: GEO 202 - Geographic Info. Systems - other courses in Geography & Earth Sciences may also be appropriate to consider as electives

* Refer to the Undergraduate Catalog to determine the courses that can be counted under each section.

UPDATED 2/09