



College of Letters and Science

# Secondary Education Emphasis 45 credit min

Effective for Spring 2013

Course pre-requisites are in parentheses

C/ means concurrent enrollment allowed

(F= Fall term only, S= Spring term only, B= Both Fall and Spring terms)

### Biology Core Courses (11-12 credits)

- BIO 105 B Biological Concepts (4) \_\_\_
- OR
- BIO 108 F Honors: Concepts in Bio (5) \_\_\_
- BIO 323 B Intro Molecular and Cell Bio (3) \_\_\_
- (BIO 105, CHEM 105 and/or c/enrollment in CHEM 106,OR CHEM 101, 102 w/B)
- BIO 343 B Genetics (BIO 323) (4) \_\_\_
- BIO 349 B Ecology and Evolution (3) \_\_\_
- (1 term gen bio)
- BIO 491 B Senior Survey \*\*\* (0) \_\_\_

\*\*\* Senior Students, during their last semester, will take a general biology/microbiology assessment exam and fill out a survey to express their opinion of the biology/microbiology program. Tests/surveys will be taken in the Testing Center at the student's convenience, (but during normal Testing Center hours). Completion of the test/survey is a requirement for graduation.

### Required Courses (10 credits)

- CHEM 105 B General Chemistry I (5) \_\_\_
- CHEM 106 B General Chemistry II (5) \_\_\_
- MATH: As specified by COLS requirements.

### Additional Required Courses (20 credits)

- BIO 211 B Human Anatomy (NS) (3) \_\_\_
- BIO 212 Human Physiology (NS)(BIO 211 w/C) (4) \_\_\_
- BIO 230 B Biology of Animals (NS) (BIO 105) (4) \_\_\_
- BIO 231 B Bio of Plants and Microbes (NS) (BIO 105) (4) \_\_\_
- BIO 349 B Ecology and Evolution (1 term gen bio) (3) \_\_\_
- BIO 351 S Evolution (1 term gen bio) (2) \_\_\_

### Electives (4 credits)

From among Biology courses at the 300-400 level

**Must also meet General Education  
and Degree Requirements to earn  
BS Degree.**

Approved: November 2011

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