**College of Science and Technology**

**Biology Department**

**B.A./B.S. Biology**

**General Biology Concentration**

**2009-2010 Catalog**

**The General Biology Concentration is appropriate for students desiring a broad foundation in biology, including those students planning to enter graduate, medical, dental, or veterinary schools and those students planning to seek teacher licensure. Students planning to enter graduate school programs in Biotechnology or Environmental should consider those concentrations rather than the General Biology concentration.**

**Required Biology Courses (All Concentrations): 20 Hours**

**BIOL 131 Ecology and Adaptation**  **(4)**

*Prerequisite: none*

**BIOL 132 Biology of Cells and Microorganisms**  **(4)**

*Prerequisite: BIOL 132*

**BIOL 231 Genetics, Evolution and Development**  **(4)**

*Prerequisite: BIOL 132*

**BIOL 232 Organismal Biology** **(4)**

*Prerequisite: BIOL 131, 132, and 231*

**BIOL 160 Introductory Seminar in Biology** **(2)**

*Prerequisite: None*

**BIOL 460 Advanced Seminar in Biology**  **(2)**

*Prerequisite: BIOL 131, 132, 160, 231, and 232*

\*Declared Biology majors must earn a grade of “C” or better in BIOL 131, 132, 231,and 232 before admission to biology electives requiring these courses as prerequisites. They must also earn a grade of “C” or better in BIOL 160 before admission to any Biology electives\*\*

**Other Required Core Courses: 22 Hours**

**CHEM 101 General Chemistry**   **(4)**

Will fulfill the University Core B Skills & Knowledge *Natural Sciences* requirement.

**CHEM 102 General Chemistry**   **(4)**

*Prerequisite CHEM 101*

**CHEM 301 Organic Chemistry (BS Requirement) (Fall Only)**  **(4)**

*Prerequisite CHEM 102*

**CHEM 302 Organic Chemistry (BS Requirement) (Spring Only)**   **(4)**

*Prerequisite CHEM 301*

**STAT 200 Introduction to Statistics**  \_ **(3)**

Will fulfill the College Core B Supporting Skills & Knowledge

*Natural Sciences or Mathematics Sciences* requirement.

**Math 137, 138, 151 \_\_\_\_\_\_ (3)**

Will fulfill the University Core B Skills & Knowledge *Mathematics Sciences* requirement.

**General Biology Concentration Requirements: 26-30 Hours**

Students must select either 26 credits of Biology courses or 22 credits of Biology courses and 8 hours of Physics courses. The additional Biology electives may be chosen from any of the Biology courses numbered 200 or higher. Students are advised to consider all the Department’s electives and to choose those most appropriate to their goals.

**B.S. Requirements** **B.A. Requirements**

**(6-12 hours** **of one foreign language)**

**CHEM 301 Organic Chemistry\_\_\_\_\_\_(4)**  ( )

*Prerequisite: CHEM 102*  ( )

 ( )

**CHEM 302 Organic Chemistry\_\_\_\_\_\_(4)**  ( )

*Prerequisite: CHEM 102*

**Teaching Licensure:** Biology majors in the General Biology Concentration seeking teaching licensure should contact the College of Education and Human Development for information concerning the necessary courses.

**Core Curriculum: 43 hours**

Some of these 43 hours are satisfied by major requirements

**Elective Hours: 15-19**

**Graduation Requirements:**

To graduate with a major in Biology a student must attain an overall major grade point average of 2.0 or higher. Major G.P.A. is calculated by using BIOL 131, BIOL 132, all biology courses 200 level or higher, all courses outside of Biology used as electives (including CHEM 471: 472, Physics used as an elective, Geography used as an environmental concentration elective), and any course used as an elective by academic petition.

**TOTAL CREDITS NEEDED FOR DEGREE: 120**

The 120 hours includes Core Curriculum, required courses for the major, BS requirements and electives. Students should consult with their faculty advisor in selecting electives for their particular career interest.