BIOLOGY DEPARTMENT

Description/Objective:

A person who wishes to study biology at WSU may select one of five options (Allied Health, Cell and Molecular, Ecology, Environmental Science, or Live Science-teaching) in the Biology Major. Each of these options leads to a B.S. degree and allows for many career opportunities.

The Biology Department also provides majors in clinical laboratory science and cytotechnology. (See separate program listings). Students interested in these majors should contact the appropriate program director as soon as possible after arriving on campus.

In addition, the Biology Department sponsors a Biology Minor and seven pre-professional programs including Pre-Dentistry, Pre-Medicine, Pre-Physical Therapy, Pre-Physician Assistant, Pre-Veterinary Medicine, Pre-Optometry, and Pre-Podiatry. (See Pre-Professional Programs section).

For the qualified and interested student, the Biology Department sponsors a Biology Honors Program which allows for a distinguished baccalaureate degree. Also, the Biology Department is home of the Gamma Delta Chapter of the prestigious Beta Beta Beta Biological Honor Society. See the biology web site at http://www.winona.edu/biology/ for more information.

Career Opportunities:

Biology majors may be employed in industry, government and educational institutions. Graduates may enter a graduate school and prepare for a career in medicine, dentistry or research. Career opportunities also exist in areas, many relating to life sciences such as natural resources, sanitation-pollution, environmental impact, teaching and environmental interpretation.
**High School Background:**

Specific high school courses are not required; however, a well-balanced college preparatory program with courses in biology, chemistry and mathematics is highly recommended.

**Biology Courses Approved for University Studies:**

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<th>Course Code</th>
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<td>104</td>
<td>Env/Society/Conservation</td>
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<td>109</td>
<td>Microbes and Society</td>
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<td>Human Biology</td>
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<td>241</td>
<td>Basics of Life</td>
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<td>242</td>
<td>Organismal Diversity</td>
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<td>269</td>
<td>Human Reproduction</td>
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**Department Programs:**

B.S. Major: Biology – Allied Health Option – no minor required
B.S. Major: Biology – Cell and Molecular Option – no minor required
B.S. Major: Biology – Ecology Option – no minor required
B.S. Major: Biology – Environmental Science Option – no minor required
B.S. Major: Life Science (Teaching) – no minor required
B.A. Minor: Biology

**Declaring a Biology Major:**

Come to the Biology Department in Pasteur 220. The chairperson will help students complete a Declaration of Major form and will assign a faculty advisor who has interests similar to those of the student.
**First-Year Sample Program:**

**Fall Semester**
- **Principles of Biology 241 or 242**  
  Natural Science  
  4 cr.
- **Principles of Chemistry 212**  
  Natural Science  
  4 cr.
- **Mathematics 150 or Mathematics 120**  
  Basic Skills  
  3 cr./4 cr.
- **English 111**  
  Basic Skills  
  4 cr.
- **Physical Development: Wellness**  
  Basic Skills  
  1 cr.

**Spring Semester**
- **Principles of Biology 241 or 242**  
  Natural Science  
  4 cr.
- **Principles of Chemistry 213**  
  Natural Science  
  4 cr.
- **Mathematics 155 or Mathematics 160**  
  Basic Skills  
  3 cr./4 cr.
- **Oral Communication 191**  
  Basic Skills  
  3 cr.
- **Physical Development: Wellness**  
  Basic Skills  
  1 cr.