**BIOLOGY MINOR**

Learning Goals and Objectives

**Goal 1:** Students will gain a fundamental understanding of cell structure and function, the organization of biological systems, and the evolution of biological diversity.

1.1 Students will understand basic mechanisms of evolutionary change and the diversity of life.

1.2 Students will understand basic concepts of molecular, classical, and population genetics, and basic biochemical processes in living organisms.

1.3 Students will understand basic concepts of how organisms interact with their abiotic and biotic environment.

**Goal 2.** Students will develop basic skills in experimental design and the presentation of scientific information.

2.1 Students will gain basic skills in data reduction, analysis, presentation, and the operation of basic laboratory equipment.

2.2 Students will be able to develop cogent written and oral presentations of scientific content.

The minor in biology requires completion of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 120</td>
<td>General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHM 125</td>
<td>General Chemistry II</td>
<td>3</td>
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<tr>
<td>CHM 120L</td>
<td>General Chemistry Lab I</td>
<td>2</td>
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<tr>
<td>CHM 125L</td>
<td>General Chemistry Lab II</td>
<td>2</td>
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<tr>
<td>BIO 101</td>
<td>Bio I: Cells</td>
<td>4</td>
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<tr>
<td>BIO 102</td>
<td>Bio II: Genetics</td>
<td>4</td>
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<tr>
<td>BIO 201</td>
<td>Bio III: Organismic Biology</td>
<td>4</td>
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</tbody>
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Select three additional courses from at least two of the following groups:

**Group A: Cell Structure and Function**
- BIO 402  Advanced Cell Biology
- BIO 404  Biochemistry
- BIO 410  Molecular Genetics
- BIO 416  Microbiology
- BIO 421  Molecular&Cellular Biophysics
- BIO 424  Biotechnology
- BIO 428  Histopathology
- BIO 430  Neurological Disorders

**Group B: Systemic Organization**
- BIO 405  Biomechanics
- BIO 407  Neurobiology
- BIO 413  Plant Physiological Ecology
- BIO 415  Immunology
- BIO 417  Systemic Physiology
- BIO 425  Bacterial Pathogenesis

**Group C: Evolution and Diversity of Life**
- BIO 401  Animal Behavior
- BIO 409  Ecology
- BIO 406  Comparative Anatomy
- BIO 414  Plant Systematics
- BIO 419  Invertebrate Zoology
- BIO 420  Bioinformatics
- BIO 422  Applied&Environ Microbio
- BIO 423  Evolution
- BIO 426  Fermentation Science
- BIO 429  Environmental Science