**BIOLOGY MINOR**

Learning Goals and Objectives

**Goal 1:** Students will gain a fundamental understanding of biological systems.

**Objective 1.1:** Students will understand concepts of basic cellular structure and function.

**Objective 1.2:** Students will demonstrate knowledge of the organization of biological systems.

**Objective 1.3:** Students will understand basic concepts concerning the evolution of biological diversity.

**Goal 2:** Students will develop basic skills in the practice of experimental inquiry into biological systems.

**Objective 2.1:** Students will understand the rudiments of experimental design.

**Objective 2.2:** Students will be competent in the operation of basic laboratory equipment.

**Objective 2.3:** Students will be competent in data collection, interpretation, and the communication of research findings in written and oral form.

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>
</tr>
<tr>
<td>CHM 120L</td>
<td>General Chemistry Lab I</td>
<td>2</td>
</tr>
<tr>
<td>CHM 125L</td>
<td>General Chemistry Lab II</td>
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<tr>
<td>BIO 101</td>
<td>Bio I: Cells</td>
<td>4</td>
</tr>
<tr>
<td>BIO 102</td>
<td>Bio II: Genetics</td>
<td>4</td>
</tr>
<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 408 Histology
- BIO 410 Light and Electron Microscopy
- BIO 411 Molecular Genetics
- BIO 412 Neurobiology
- BIO 416 Microbiology
- BIO 421 Molecular&Cellular Biophysics
- BIO 424 Biotechnology
- BIO 428 Histopathology

**Group B: Systemic Organization**
- BIO 403 Biometrics and Modeling
- BIO 405 Biomechanics
- BIO 407 Developmental Biology
- BIO 413 Plant Physiological Ecology
- BIO 415 Immunology
- BIO 417 Systemic Physiology
- BIO 425 Bacterial Pathogenesis
- 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