School of Life Sciences Biological Sciences Minor and B.I.S. Biological Sciences Concentration

The Biological Sciences minor and B.I.S. Biological Sciences concentration is designed to provide students interested in the biological sciences with a flexible curriculum that can be tailored to their interests. The minor and concentration consists of 24 semester hours.

**Option 1** consists of BIO 281- Conceptual Approaches to Biology for Majors I, BIO 282- Conceptual Approaches to Biology for Majors II, BIO 340-General Genetics, and BIO 345-Organic Evolution.

**Option 2** consists of BIO 281- Conceptual Approaches to Biology for Majors I, BIO 282- Conceptual Approaches to Biology for Majors II, MBB 347 Molecular Genetics: From Genes to Proteins, and MIC 220-Biology of Microorganisms and MIC 206-Microbiology Lab.

The remaining hours are selected by the student with the approval of a School of Life Science’s advisor.

**Notes:**
1. At least 12 hours must be upper division courses in the life sciences.
2. Courses which are not available for credit in the Life Sciences majors cannot be used for the minor (e.g. BIO 100 The Living World, BIO 201 Human Anatomy and Physiology I, and BIO 202 Human Anatomy and Physiology II).
3. This minor is not available to students majoring in the life sciences.
4. Students may not use BIO 494: Advanced Study Practicum, BIO 390 Medical/Dental Field Placement, or BIO 490 Surgical Field Placement to fulfill upper division courses.
5. Students may use a maximum of 3 hours of independent instruction towards the 24 total hours.

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### Sequences of Courses

#### Option 1

**Required Courses:**
- **BIO 281** (4) Conceptual Approaches to Biology for Majors I
- **BIO 282** (4) Conceptual Approaches to Biology for Majors I
- **BIO 340** (4) General Genetics
- **BIO345** (3) Organic Evolution

**Optional lower division courses (200 level):**
- PLB200 & PLB201 or MIC220 & 206

At least 5 of the remaining 9 hours must be upper division Life Science courses.

**Upper division courses (300 or 400 level):**

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Total hours: ______ (minimum 24)

#### Option 2

**Required Courses:**
- **BIO 281** (4) Conceptual Approaches to Biology for Majors I
- **BIO 282** (4) Conceptual Approaches to Biology for Majors I
- **MBB 347** (4) Molecular Genetics: From Genes to Proteins
- **MIC220** Biology of Microorganisms (3) & MIC206 (1) Microbiology Laboratory

The remaining 8 hours must be upper division Life Science courses.

**Upper division courses (300 or 400 level):**

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Total hours: ______ (minimum 24)