**Required Core Courses**

- BIO 122/122L - Foundations of Biology: Reproduction and Development (3/2)
- BIO 123/123L - Foundations of Biology: Biodiversity (3/2)
- BIO 211/211L - Biometrics (3/1)
- BIO 303 - Genetics (4)
- BIO 490 - Scientific Communication (1)

**Total Units 19**

**Required Subplan/Option Core Courses**

- BIO 310 - Cell and Molecular Biology (4)
- BIO 325/325L - Principles of Ecology (3/1)
- BIO 413 - Principles of Evolution (4)
- BIO 428/428L - Cellular Physiology (4/1) or
- BOT 428/428L - Plant Physiology (4/1) or
- MIC 428/428L - Microbial Physiology (4/1) or
- ZOO 428/428L - Animal Physiology (4/1)
- BOT 201/201L - Form and Function in Plants (3/1)
- MIC 201/201L - Basic Microbiology (3/1)
- ZOO 201/201L - Animal Biology (3/1)

**Total Units 29**

**Elective Subplan/Option Core Courses**

- 300-400 level courses offered by the Biological Sciences Department (other than BIO 400, BIO 441, BIO 461, BIO 462) of which at least 12 units must be at the 400-level. Courses specifically designed for non-majors cannot be used.

**Total Units 19**

**Required Support Courses**

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

- BIO 121/121L - Foundations of Biology: Energy and Matter - Cycles and Flows (3/2) (B2, B3)
- BIO 304 - Environment and Society (4) (B5)
- CHM 121 - General Chemistry (3) (B1)
- CHM 121L - General Chemistry Laboratory (1) (B3)
- CHM 122 - General Chemistry (3) and
- CHM 122L - General Chemistry Laboratory (1)
- CHM 123 - General Chemistry (3) and
- CHM 123L - General Chemistry Laboratory (1)
- CHM 201 - Principles of Organic Chemistry (3) and
- CHM 256L - Elements of Organic Chemistry Laboratory (1)

**Total Units 61**

**Elective Support Courses**

Approved electives include any 200, 300, or 400 level courses in the Biological Sciences Department not specifically designed for non-majors. Only 2 units of BIO 200 or BIO 400 allowed. Only 4 units of BIO 441 or BIO 461 allowed. Only 2 units of BIO 462 allowed. Also included are any advanced Chemistry or Math courses. See advisor for approval of courses offered by other departments.

**Total Units 12**