Biology (BA) - Topical Focus Option B | College of Arts & Sciences

Biology is the study of LIFE. It is the exciting study of how living systems do their business: How plants produce nearly every bite of edible food through photosynthesis. How microorganisms reproduce and acquire resistance to antibiotics, how they produce disease, and how they benefit our lives. It is the study of animal development from conception through maturation, reproduction, senescence and then ultimately to death. It is the study of how we perceive our world through our amazing senses, and it is the study of the very brain we use to process this information and everything about our world. It is the study of the great diversity of living things on Earth and how they interact with each other and with human society. Biology tells us who we are in this vast living world. It tells us where we came from, and it tells us where we might go as a species.

### Freshman Year

**FALL SEMESTER**
- CHE 105 - GENERAL COLLEGE CHEMISTRY I - 4
- CHE 111 - LABORATORY TO ACCOMPANY GENERAL CHEMISTRY I - 1
- BIO 148 - INTRODUCTORY BIOLOGY I - 3
- UK Core - Comp. & Comm. I - 3
- Pre-Major Math Selection - 4
- Pre-Major Lab/Research Selection - 1

**TOTAL HOURS: 16**

**SPRING SEMESTER**
- CHE 107 - GENERAL COLLEGE CHEMISTRY II - 3
- CHE 113 - LABORATORY TO ACCOMPANY GENERAL CHEMISTRY II - 2
- BIO 152 - PRINCIPLES OF BIOLOGY II - 3
- UK Core - Comp. & Comm. II - 3
- Foreign Language 201 - 3

**TOTAL HOURS: 14**

Total Freshman Hours: 30

### Sophomore Year

**FALL SEMESTER**
- CHE 231 - ORGANIC CHEMISTRY LABORATORY I - 1
- Outside Biology - Chemistry Selection - 3
- Tier-1 Biology Course Selection - 4
- A&S Social Sciences (100+ level) - 3
- Foreign Language 202 - 3

**TOTAL HOURS: 14**

**SPRING SEMESTER**
- STA 296 - STATISTICAL METHODS AND MOTIVATIONS - 3
- Tier-1 Biology Course Selection - 4
- UK Core - Humanities - 3
- UK Core - Social Sciences - 3

**TOTAL HOURS: 13**

Total Sophomore Hours: 27

### Junior Year

**FALL SEMESTER**
- Outside Biology - Physics Selection - 3
- Tier-2 Biology Course Selection I - 4
- Topical Focus Course I - 3
- Biology Electives - 3

**TOTAL HOURS: 15**

**SPRING SEMESTER**
- Tier-2 Biology Course Selection II - 4
- Topical Focus Course II - 3
- A&S Social Sciences (100+ level) - 3
- A&S Humanities (100+ level) - 3
- A&S Approved Elective (100+ level) - 3
### Senior Year

#### FALL SEMESTER
- **Topical Focus Course III**: 3
- Biology Electives: 3
- UK Core - Arts and Creativity: 3
- UK Core - Community, Culture and Citizen: 3
- A&S Approved Elective (100+ level): 3

**TOTAL HOURS: 17**

#### SPRING SEMESTER
- BIO 425 - BIOLOGY SEMINAR: SUBTITLE REQUIRED: 1
- Topical Focus Course IV: 3
- Biology Electives: 3
- Biology GCCR: 3
- A&S Humanities (100+ level): 3
- UK Core - Global Dynamics: 3

**TOTAL HOURS: 16**

**Total Senior Hours: 33**

**Total Minimum hours Required for Degree: 120 hours**