Biology (BS) | 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 CC1 or Foreign Language 201 - 3
- Pre-Major Math Selection - 4
- Pre-Major Lab/Research Selection - 1

**TOTAL HOURS: 17**

**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 CC2 or Foreign Language 202 - 3
- Pre-Major Math Selection - 4

**TOTAL HOURS: 16**

Total Freshman Hours: 33

Sophomore Year

**FALL SEMESTER**
- CHE 230 - ORGANIC CHEMISTRY I - 3
- CHE 231 - ORGANIC CHEMISTRY LABORATORY I - 1
- UK Core CC1 or Foreign Language 201 - 3
- Tier-1 Biology Course Selection - 3
- UK Core - Social Sciences - 3

**TOTAL HOURS: 14**

**SPRING SEMESTER**
- CHE 232 - ORGANIC CHEMISTRY II - 3
- UK Core CC2 or Foreign Language 202 - 3
- Tier-2 Biology Course Selection - 3
- UK Core - Humanities - 3
- A&S Approved Elective (100+ level) - 3

**TOTAL HOURS: 16**

Total Sophomore Hours: 30

Junior Year

**FALL SEMESTER**
- PHY 211 - GENERAL PHYSICS - 5
- BIO 315 - INTRODUCTION TO CELL BIOLOGY - 4
- BIO 325 - ECOLOGY - 4
- STA 296 - STATISTICAL METHODS AND MOTIVATIONS - 3

**SPRING SEMESTER**
- PHY 213 - GENERAL PHYSICS - 5
- Tier-2 Biology Course Selection - 4
- Biology Elective (200+ level) - 1
- A&S Approved Elective (100+ level) - 3

**TOTAL HOURS: 15**
Senior Year

**FALL SEMESTER**
- Biology Elective (200+ level) - 1
- Biology Elective (200+ level) - 1
- A&S Social Sciences (100+ level) - 3
- UK Core - Arts and Creativity - 3
- UK Core - Community, Culture and Citizen - 3

**TOTAL HOURS: 15**

**SPRING SEMESTER**
- BIO 425 - BIOLOGY SEMINAR: SUBTITLE REQUIRED - 1
- Biology Elective (200+ level) - 1
- Biology Elective (200+ level) - 1
- UK Core - Global Dynamics - 3

**TOTAL HOURS: 14**

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