# Biological Science B.S.

All students must meet the University Requirements. ([http://catalogue.uvm.edu/undergraduate/academicinfo/degreerequirements/](http://catalogue.uvm.edu/undergraduate/academicinfo/degreerequirements/))

All students must meet the College Requirements. ([http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/#requirementstext](http://catalogue.uvm.edu/undergraduate/agricultureandlifesciences/#requirementstext))

## Major Requirements

The Biological Science B.S. core curriculum requires satisfactory completion:

### Core Requirements:

- **I of the 2 following introductory biology options:**
  - BCOR 011 & BCOR 012 Exploring Biology and Exploring Biology (4-8 credits)
  - BCOR 021 Accelerated Biology (4 credits)

- **BCOR 101 Genetics** (3 credits)
- **BCOR 102 SU: Ecology and Evolution** (4 credits)
- **BCOR 103 Molecular and Cell Biology** (4 credits)

### Ancillary Requirements:

- **CHEM 031 General Chemistry 1** (4 credits)
- **CHEM 032 General Chemistry 2** (4 credits)
- **CHEM 141 Organic Chemistry 1** (4 credits)
- **CHEM 142 Organic Chemistry 2** (4 credits)

### MATH 019 QR: Fundamentals of Calculus I (3-4 credits)

- **or MATH 021 QR: Calculus I**
- **MATH 020 QR: Fundamentals of Calculus II** (3-4 credits)

- **or MATH 022 QR: Calculus II**

### STAT 141 QR: Basic Statistical Methods I (3 credits)

- **or STAT 211 QR: Statistical Methods I**

### 1 of the following 2 Physics options:

- **OPTION A**
  - PHYS 011 & PHYS 021 Elementary Physics and Introductory Lab I
  - PHYS 012 & PHYS 022 Elementary Physics and Introductory Lab II

- **OPTION B**
  - PHYS 051 Fundamentals of Physics I
  - PHYS 152 Fundamentals of Physics II

### Advanced Electives:

In consultation with their academic advisor, students will design a course of study that includes an additional 26 credits of advanced life science electives chosen from the following list of courses. No more than 8 credits at the 100-level may apply toward these electives, and not exceeding 3 100-level courses. With an advisor’s permission, a biologically relevant 300-level course may be applied. Up to 6 credits of undergraduate research and/or thesis credits in any biological discipline may be applied to the advanced electives; only 3 of these credits taken at the 100-level will count toward the major, and these will be counted in the 8 credits allowed at the 100-level.


**Total Credits:** 74-82

Students are advised to complete 12 credits of advanced electives from courses with a quantitative component, 3 credits that stress oral communication and 3 credits that stress written communication. See the advanced electives list on the Biological Science B.S. website for these designations as well as course titles.