Major in Biology

Following is one suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment.

BA with a Major in Biology

FRESHMAN YEAR

FALL HOURS
BIOL 1710, Principles of Biology I, or
BIOL 1711, Honors Principles of Biology I 3
BIOL 1730, Principles of Biology I Laboratory 1
CHEM 1410, General Chemistry, or
CHEM 1413, Honors General Chemistry 3
CHEM 1430, General Chemistry Laboratory 1
ENGL 1310, College Writing 3
PSCI 1040, American Government 3
Wellness 2-3 Total 16-17

SOPHOMORE YEAR

FALL HOURS
BIOL 2040, Biology of Microorganisms 4
CHEM 2370, Organic Chemistry 3
CHEM 3210, Organic Chemistry Laboratory 1
MATH 1710, Calculus I 4
CSCI 1 3
Oral Communication 2 Total 16

JUNIOR YEAR

FALL HOURS
ENGL 2220, World Literature II 3
LANG 2040, Foreign Language (intermediate) 3
PHYS 1410, General Physics I 3
PHYS 1430, General Physics I Laboratory 1
BIOL (advanced) 4
Elective (advanced) 3 Total 17

SENIOR YEAR

FALL HOURS
HIST 2610, United States History to 1865 3
BIOL (advanced) 4
Elective (advanced) 3
Elective (advanced) 3
Understanding of Ideas and Values 3
Visual and Performing Arts 3
Total 19

SAPRING HOURS
BIOL 1720, Principles of Biology II, or
BIOL 1722, Honors Principles of Biology II 3
CHEM 1420, General Chemistry, or
CHEM 1423, Honors General Chemistry 3
CHEM 1440, General Chemistry Laboratory 1
ENGL 1320, College Writing II 3
MATH 1650, Pre-calculus 3 Total 16

SOPHOMORE YEAR

SPRING HOURS
BIOL 2140, Principles of Ecology 3
CHEM 2380, Organic Chemistry 3
CHEM 3220, Organic Chemistry Laboratory 1
ENGL 2210, World Literature I 3
PSCI 1050, American Government II 3
BIOL, (advanced) 4 Total 17

JUNIOR YEAR

SPRING HOURS
ECON 1110, Principles of Macroeconomics 3
LANG 2050, Foreign Language (intermediate) 3
PHYS 1420, General Physics II 3
PHYS 1440, General Physics II Laboratory 1
CHEM (minor advanced) 4 Total 18

SENIOR YEAR

SPRING HOURS
HIST 2620, United States History Since 1865 3
BIOL (advanced) 3
Elective (advanced) 3
Elective (advanced) 3
Understanding of Ideas and Values 3
Elective (advanced) 3 Total 17

Actual degree plans may vary depending on availability of courses in a given semester. Some courses may require prerequisites not listed in above plan. See Arts and Sciences notes in supplement booklet for footnotes.
Summary of Degree Requirements:

- Biology (19 advanced): 34
- Chemistry Minor (6 advanced): 20
- Physics: 8
- Core:
  - English: 12
  - History: 6
  - Political Science: 6
  - Wellness: 2-3
  - Economics: 3
  - Mathematics: 9
  - Understanding of Ideas and Values: 6
  - Visual and Performing Arts: 3

Supplemental Information for BA with a Major in Biology

1. Major of 34 hours in the biological sciences, of which 19 must be advanced.
2. A minor in chemistry with a minimum of 20 hours, including CHEM 1410/1430 or 1413/1430, 1420/1440 or 1423/1440, 2370/3210, 2380/3220 or equivalent, plus 4 advanced hours chosen from CHEM 3450, 3530 or BIOC 3620. Premedical and pre-dental students are advised to substitute both BIOC 4540 and 4550 for BIOC 3620.
3. Minimum of 71 hours in the division of sciences, of which 25 must be advanced.
4. Required courses:
   a. Biology: BIOL 1710/1730 or 1711/1730 and 1720/1740 or 1722/1740; 2040, 2140, plus 19 hours of advanced biology, of which at least 16 must be with laboratory (BIOL 3350/3360 or 3450 is recommended).

Bachelor of Science in Biology

Degree Requirements

Candidates for the Bachelor of Science in Biology must meet the following requirements.

1. Hours Required for the Degree: Completion of a minimum of 131 total semester hours; 42 must be advanced.
2. General University Requirements: See “General Degree Requirements” in the Academics section of this catalog.
3. College of Arts and Sciences Core Curriculum: Minimum 61 hours (includes requirements of University Core Curriculum). See “Arts and Sciences Core Curriculum” in the College of Arts and Sciences section of this catalog for specific core requirements and list of approved courses. See specific degree plan for exact hours.

Students may complete either of two options to satisfy the College of Arts and Sciences foreign language requirement:

Option I: Complete two semesters of foreign language at the 2000 level or pass appropriate proficiency exam(s) as specified by the College of Arts and Sciences.

Option II: Complete four math or science classes (a minimum of 12 hours). A student who wishes to fulfill the foreign language requirement by Option II must first be counseled by an undergraduate adviser of the Department of Biological Sciences and must obtain written approval of Option II for inclusion in the student’s degree plan. This approval must include a specific listing of each course to be taken to fulfill the option. All courses approved must contribute in a logical and significant fashion to the student’s academic preparation for a stated professional school or career goal. No course substitutions from an approved Option II plan will be allowed without prior written approval from the department. All courses must be appropriate for majors within the department that offers them. Normal limitations for undergraduate enrollment in graduate classes will still apply. Other requirements are specified below:

- Biochemistry: Upper-division and graduate-level biochemistry classes are acceptable if they are not used to complete a chemistry minor.