

Biology, BA

Academic Plans

Four-Year Graduation Plan

The following checkpoints list the minimum requirements students must complete by certain semesters in order to stay on the university's Four-Year Graduation Plan. Courses in the major are those required to complete the major; they may be offered by departments other than the major department.

Before the third semester begins: MATH:1460 Calculus for the Biological Sciences or MATH:1850 Calculus I, CHEM:1110 Principles of Chemistry I, CHEM:1120 Principles of Chemistry II, and BIOL:1411 Foundations of Biology.

Before the fifth semester begins: BIOL:1412 Diversity of Form and Function, STAT:2010 Statistical Methods and Computing or STAT:3510 Biostatistics, and four other courses in the major.

Before the seventh semester begins: BIOL:2512 Fundamental Genetics, BIOL:2723 Cell Biology, BIOL:3172 Evolution, five or six more courses in the major, and at least 90 s.h. earned toward the degree.

Before the eighth semester begins: two or three more courses in the major.

During the eighth semester: enrollment in all remaining coursework in the major, all remaining GE CLAS Core courses, and a sufficient number of semester hours to graduate.

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Biology, BA

| Course | Title | Hours |
|--|---|--------------|
| Academic Career | | |
| Any Semester | | |
| GE CLAS Core: Sustainability ^a | | |
| Research: Iowa Lakeside Laboratory summer field courses ^b | | |
| Hours | | 0 |
| First Year | | |
| Fall | | |
| CHEM:1110 | Principles of Chemistry I ^c | 4 |
| ENGL:1200 or RHET:1030 | The Interpretation of Literature or Rhetoric | 3 - 4 |
| MATH:1460 | Calculus for the Biological Sciences ^d | 4 |
| GE CLAS Core: Social Sciences ^e | | 3 |
| CSI:1600 | Success at Iowa | 2 |
| Hours | | 16-17 |
| Spring | | |
| BIOL:1411 | Foundations of Biology | 4 |
| CHEM:1120 | Principles of Chemistry II | 4 |
| RHET:1030 or ENGL:1200 | Rhetoric or The Interpretation of Literature | 3 - 4 |

| | |
|--|--------------|
| GE CLAS Core: Diversity and Inclusion ^e | 3 |
| Hours | 14-15 |

Second Year

| | | |
|---|---|--------------|
| Fall | | |
| BIOL:1412 | Diversity of Form and Function | 4 |
| STAT:3510 or STAT:2010 | Biostatistics or Statistical Methods and Computing | 3 |
| GE CLAS Core: Literary, Visual, and Performing Arts ^e | | 3 |
| GE CLAS Core: World Languages First Level Proficiency or elective course ^f | | 4 - 5 |
| Hours | | 14-15 |

Spring

| | | |
|--|--------------|--------------|
| BIOL:2723 | Cell Biology | 3 |
| Major: elective outside biology ^g | | 3 |
| GE CLAS Core: Historical Perspectives ^e | | 3 |
| GE CLAS Core: World Languages Second Level Proficiency or elective course ^f | | 4 - 5 |
| Hours | | 13-14 |

Third Year

| | | |
|--|----------------------|--------------|
| Fall | | |
| BIOL:2512 | Fundamental Genetics | 4 |
| BMB:3110 | Biochemistry | 3 |
| Major: elective outside biology ^g | | 3 |
| GE CLAS Core: World Languages Third Level Proficiency or elective course ^f | | 4 - 5 |
| Hours | | 14-15 |
| Spring | | |
| BIOL:3172 | Evolution | 4 |
| Major: biological systems requirement I ^h | | 3 |
| Major: elective outside biology ^g | | 3 |
| GE CLAS Core: World Languages Fourth Level Proficiency or elective course ^f | | 4 - 5 |
| Hours | | 14-15 |

Fourth Year

| | | |
|---|--|----------------|
| Fall | | |
| Major: biological systems requirement II ^h | | 3 |
| Major: biology elective I | | 3 |
| Major: elective outside biology ^g | | 3 |
| GE CLAS Core: International and Global Issues ^e | | 3 |
| GE CLAS Core: Values and Culture ^e | | 3 |
| Hours | | 15 |
| Spring | | |
| Major: course with a laboratory requirement ^h | | 4 - 6 |
| Major: genes and genomes requirement ^h | | 3 |
| Major: biology elective II | | 3 |
| Elective course ⁱ | | 3 |
| Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) ^j | | |
| Hours | | 13-15 |
| Total Hours | | 113-121 |

a A Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.

- b After completing BIOL:1412 Diversity of Form & Function, students are eligible to enroll in Lakeside Laboratory summer field courses. Registration for these courses is in winter of each year.
- c Enrollment in chemistry courses requires completion of a placement exam.
- d Enrollment in math courses requires completion of a placement exam.
- e GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.
- f Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.
- g Students complete 12 s.h. of coursework outside the Department of Biology by choosing courses from an approved list.
- h See General Catalog for list of approved courses.
- i Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.
- j Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.