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 fifth semester begins: BIOL:1412 Diversity of Form and Function, CHEM:2210 Organic Chemistry I, STAT:2010 Statistical Methods and Computing or STAT:3510 Biostatistics, and two other courses in the major.

Before the seventh semester begins: BIOL:2512 Fundamental Genetics; PHYS:1511 College Physics I and PHYS:1512 College Physics II, or equivalents; six or seven 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 Plans 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, B.S.

- Cell and Developmental Biology Track [p. 1]
- Genetics and Biotechnology Track [p. 1]
- Integrative Biology Track [p. 1]
- Neurobiology Track [p. 1]

Cell and Developmental Biology Track

This sample plan is being reviewed and will be updated at a later date.

Genetics and Biotechnology Track

This sample plan is being reviewed and will be updated at a later date.

Integrative Biology Track

This sample plan is being reviewed and will be updated at a later date.

Neurobiology Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHEM:1110</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>RHET:1030 or ENGL:1200</td>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
</tr>
<tr>
<td>MATH:1460</td>
<td>Calculus for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td>GE CLAS Core: Social Sciences</td>
<td>3</td>
<td></td>
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<tr>
<td>CSI:1600</td>
<td>Success at Iowa</td>
<td>2</td>
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</tbody>
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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 d 3

Hours 14-15

Second Year

Any Semester

Research: students interested in research should begin the placement search process in the second year.

Hours 0

Fall

BIOL:1412 Diversity of Form and Function 4
CHEM:2210 Organic Chemistry I 3
STAT:3510 or STAT:2010 Biostatistics or Statistical Methods and Computing 3
GE CLAS Core: World Languages First Level Proficiency or elective course e 4 - 5

Hours 14-15

Spring

BIOL:2512 Fundamental Genetics 4
BIOL:2753 Introduction to Neurobiology 3
PHYS:1511 College Physics I 4
GE CLAS Core: World Languages Second Level Proficiency or elective course e 4 - 5

Hours 14-15

Third Year

Fall

BIOL:3244 Animal Behavior 5
BMB:3120 or BMB:3110 Biochemistry and Molecular Biology I or Biochemistry 3
GE CLAS Core: Historical Perspectives d 3
GE CLAS Core: World Languages Second Level Proficiency or elective course e 4 - 5

Hours 15-16

Third Year

Fall

BIOL:3244 Animal Behavior 5
BMB:3120 or BMB:3110 Biochemistry and Molecular Biology I or Biochemistry 3
GE CLAS Core: Historical Perspectives d 3
GE CLAS Core: World Languages Second Level Proficiency or elective course e 4 - 5

Hours 15-16
Spring
BIOL:2723 Cell Biology 3
BMB:3130 Biochemistry and Molecular Biology II g 3
PHYS:1512 College Physics II 4
GE CLAS Core: World Languages Fourth Level Proficiency or elective course e 4 - 5

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<tr>
<th>Hours</th>
<th>14-15</th>
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Fourth Year
Fall
BIOL:3253 Neurobiology I 4
BIOL:3656 Neurobiology Laboratory or BIOL:3655 Neurogenetics Laboratory 4
Major: neurobiology elective 3
GE CLAS Core: International and Global Issues d 3

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<th>Hours</th>
<th>14</th>
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Spring
BIOL:3254 Neurobiology II 4
Major: experiential elective h 4
GE CLAS Core: Literary, Visual, and Performing Arts d 3
GE CLAS Core: Values and Culture d 3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) i

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<tr>
<th>Hours</th>
<th>14</th>
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Total Hours 116-122

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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 Enrollment in chemistry courses requires completion of a placement exam.
c Enrollment in math courses requires completion of a placement exam.
d 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.
e 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.
f Students who take BMB:3120 also must take BMB:3130.
g See General Catalog for list of approved courses. Students must choose BMB:3130 if BMB:3120 was taken.
h Students may take an investigative lab for the track. Or, students who use BIOL:4999 to fulfill the requirement must complete 6 s.h. in that course; students who use BIOL:3994 must complete 5 s.h. in that course in combination with 1 s.h. in BIOL:4898; and students who use BIOL:4897 or BIOL:4806 must complete 4 s.h. in those courses. Students may complete at least 4 s.h. from a combination of BIOL:3994, BIOL:4213, BIOL:4897, BIOL:4999, LATH:3001, or an approved biology-related internship.
i 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.