Biochemistry, B.A.

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 seventh semester begins: PHYS:1611 Introductory Physics I or PHYS:1511 College Physics I, PHYS:1612 Introductory Physics II or PHYS:1512 College Physics II, BMB:3120 Biochemistry and Molecular Biology I, BMB:3130 Biochemistry and Molecular Biology II, BMB:3140 Experimental Biochemistry, a science elective, and at least 90 s.h. earned toward the degree.

Before the eighth semester begins: BMB:4240 Biophysics and Advanced Biochemistry and a science elective.

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.

Biochemistry, B.A.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Success at Iowa</td>
<td>2</td>
</tr>
</tbody>
</table>

Elective course | 1

Spring

- CHEM:1120 Principles of Chemistry II | 4
- ENGL:1200 The Interpretation of Literature or Rhetoric | 3 - 4
- MATH:1860 Calculus II | 4
- GE CLAS Core: Diversity and Inclusion | 3
- Elective course | 1

Total Hours: 15-16

Second Year

Fall

- BIOL:1411 Foundations of Biology | 4
- CHEM:2210 Organic Chemistry I or CHEM:2230 Organic Chemistry I for Majors | 3
- GE CLAS Core: Historical Perspectives | 3
- GE CLAS Core: World Languages First Level Proficiency or elective course | 4 - 5
- Elective course | 2

Total Hours: 16-17

Spring

- BIOL:1412 Diversity of Form and Function | 4
- CHEM:2240 Organic Chemistry II for Majors or Organic Chemistry II | 3
- CHEM:2410 Organic Chemistry Laboratory or Organic Chemistry Laboratory for Majors | 3
- GE CLAS Core: World Languages Second Level Proficiency or elective course | 4 - 5
- Elective course | 2

Total Hours: 16-17

Third Year

Fall

- BMB:3120 Biochemistry and Molecular Biology I | 3
- PHYS:1611 Introductory Physics I or PHYS:1511 College Physics I | 4
- Major: research or science elective (consult with advisor) | 3
- GE CLAS Core: Values and Culture | 3
- GE CLAS Core: World Languages Second Level Proficiency or elective course | 4 - 5

Total Hours: 17-18

Spring

- BMB:3130 Biochemistry and Molecular Biology II | 3
- BMB:3140 Experimental Biochemistry | 2
- PHYS:1512 College Physics II or PHYS:1612 Introductory Physics II | 4
- GE CLAS Core: Literary, Visual, and Performing Arts | 3
- GE CLAS Core: World Languages Fourth Level Proficiency or elective course | 4 - 5

Total Hours: 16-17

Fourth Year

Fall

- BMB:4240 Biophysics and Advanced Biochemistry | 3

Total Hours: 17-18
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Major: research, independent study, or elective (consult with advisor)</td>
<td>3</td>
</tr>
<tr>
<td>Major: science elective (consult with advisor)</td>
<td>3</td>
</tr>
<tr>
<td>GE CLAS Core: International and Global Issues</td>
<td>3</td>
</tr>
<tr>
<td>Elective course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: research, independent study, or elective (consult with advisor)</td>
<td>3</td>
</tr>
<tr>
<td>Major: science elective (consult with advisor)</td>
<td>3</td>
</tr>
<tr>
<td>GE CLAS Core: Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Elective course</td>
<td>3</td>
</tr>
<tr>
<td>Elective course</td>
<td>3</td>
</tr>
<tr>
<td>Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)</td>
<td>15</td>
</tr>
</tbody>
</table>

**Total Hours** **124-130**

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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 Fulfills a major requirement and may fulfill a GE requirement.

c Enrollment in chemistry courses requires completion of a placement exam.

d Enrollment in math courses requires completion of a placement exam.

e 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.

f 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.

g 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.

h Students are required to complete 6 s.h. in advanced science electives approved by biochemistry advisor.

i Students intending to earn advanced degrees in the biological or health sciences are advised to earn at least 4 s.h. in BMB:3993 or BMB:4999.

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.