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</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>First Year</td>
<td></td>
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<tr>
<td>Fall</td>
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<tr>
<td>CHEM:1110</td>
<td>Principles of Chemistry I</td>
<td>4</td>
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<tr>
<td>MATH:1850</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>RHET:1030</td>
<td>Rhetoric or The Interpretation of Literature</td>
<td>3 - 4</td>
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<tr>
<td>or ENGL:1200</td>
<td></td>
<td></td>
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<tr>
<td>CSI:1600</td>
<td>Success at Iowa</td>
<td>2</td>
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Elective course e  1

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

Hours  14-15

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

Hours  15-16

Spring
BIOL:1412 Diversity of Form and Function c  4
CHEM:2220 or CHEM:2240 Organic Chemistry II for Majors or Organic Chemistry II  3
CHEM:2420 or CHEM:2410 Organic Chemistry Laboratory for Majors or Organic Chemistry Laboratory  3
GE CLAS Core: World Languages Second Level Proficiency or elective course g  4 - 5
Elective course e  2

Hours  16-17

Third Year
Fall
BMB:3120 Biochemistry and Molecular Biology I  3
PHYS:1511 College Physics I c or PHYS:1611 Introductory Physics I  4
Major: research or science elective (consult with advisor) h, i  3
GE CLAS Core: Values and Culture f  3
GE CLAS Core: World Languages Second Level Proficiency or elective course g  4 - 5

Hours  17-18

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

Hours  16-17

Fourth Year
Fall
BMB:4240 Biophysics and Advanced Biochemistry  3
Major: research, independent study, or elective (consult with advisor)  
3

Major: science elective (consult with advisor)  
3

GE CLAS Core: International and Global Issues  
3

Elective course  
3

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### Spring

Major: research, independent study, or elective (consult with advisor)  
3

Major: science elective (consult with advisor)  
3

GE CLAS Core: Social Sciences  
3

Elective course  
3

Elective course  
3

Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)  

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

c. Fulfills a major requirement and may fulfill a GE requirement.

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.