# **Biochemistry and** Molecular 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: CHEM:1110 Principles of Chemistry I, CHEM:1120 Principles of Chemistry II, and two semesters of advanced math (e.g., Calculus I, Calculus II, or **Biostatistics**).

Before the fifth semester begins: BIOL:1411 Foundations of Biology, BIOL:1412 Diversity of Form and Function, CHEM:2210 Organic Chemistry I or CHEM:2230 Organic Chemistry I for Majors, CHEM:2220 Organic Chemistry II or CHEM:2240 Organic Chemistry II for Majors, and CHEM:2410 Organic Chemistry Laboratory or CHEM:2420 Organic Chemistry Laboratory for Majors.

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 and Molecular Biology**, BA

Course	Title	Hours
Academic Ca	reer	
Any Semeste	r	
from the BA to completing one (CHEM:2210 O Organic Chemi	od academic standing can switch the BS degree program after e semester of organic chemistry rganic Chemistry I or CHEM:2230 istry I for Majors).	
GE CLAS Core:	Sustainability <sup>a</sup>	
	Hours	0

Fail         CHEM:1110       Principles of Chemistry I <sup>b, c</sup> 4         MATH:1850       Calculus I <sup>b, d</sup> 4         RHET:1030       Rhetoric       3 - 4         or ENGL:1200       or The Interpretation of Literature       2         CSI:1600       Success at Iowa       2         Elective course <sup>e</sup> 14-15         Spring       Principles of Chemistry II <sup>b</sup> 4         CHEM:1120       The Interpretation of Literature or RHET:1030       3 - 4         Or Rhetoric       3 - 4       3 - 4         MATH:1860       Calculus II       3 - 4         or STAT:3510       or Biostatistics       3 - 4         GE CLAS Core: Diversity and Inclusion <sup>f</sup> 3       3         Elective course <sup>e</sup> 14-16       5         Second Year       Fail       5         BIOL:1411       Foundations of Biology <sup>b</sup> 4         CHEM:2230       Organic Chemistry I for Majors       3         or CHEM:2210       or Organic Chemistry I       4         Spring       BIOL:1412       Diversity of Form and Function <sup>b</sup> BIOL:1412       Diversity of Form and Function <sup>b</sup> 4         CHEM:2220       Organic Chemistry II for Majors       <	First Year		
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or PHYS:1612 or Introductory Physics II	Proficiency or ele Elective course <sup>e</sup> <b>Third Year</b> <b>Fall</b> BMB:3120 PHYS:1511 or PHYS:1611 Major: research of advisor) <sup>h, 1</sup> GE CLAS Core: Vi GE CLAS Core: Vi GE CLAS Core: W Proficiency or ele <b>Spring</b> BMB:3130 BMB:3140 PHYS:1512	Laboratory for Majors Approximate Second Level Approximate Second Le	2 16-17 3 4 3 4 - 5 17-18 3 2

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GE CLAS Core: Literary, Visual, and Performing Arts <sup>f</sup>	3	
GE CLAS Core: World Languages Fourth Level Proficiency or elective course <sup>g</sup>	4 - 5	
Hours	16-17	
Fourth Year		
Fall		
BMB:4240 Biophysics and Advanced Biochemistry	3	
Major: research, independent study, or elective (consult with advisor) <sup>h, i</sup>	3	
Major: science elective (consult with advisor) <sup>i</sup>	3	
GE CLAS Core: International and Global Issues <sup>f</sup>	3	
Elective course <sup>e</sup>	3	
Hours	15	
Spring		
Major: research, independent study, or elective (consult with advisor) $^{\rm h,i}$	3	
Major: science elective (consult with advisor) <sup>i</sup>	3	
GE CLAS Core: Social Sciences <sup>f</sup>		
Elective course <sup>e</sup>		
Elective course <sup>e</sup>		
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) <sup>j</sup>		
Hours	15	
Total Hours	123-130	

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