Biomedical Sciences, B.S.

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.


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.

Biomedical Sciences, B.S.

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>GE CLAS Core: Sustainability</td>
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**First Year**

**Any Semester**

Begin volunteering at a hospital or other healthcare facility in the first year or as early as possible.

**Fall**

CHEM:1110 Principles of Chemistry I     4
MATH:1460 Calculus for the Biological Sciences     4
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric     3 - 4
SOC:1010 Introduction to Sociology     3
CSI:1600 Success at Iowa     2

**Spring**

BIOL:1411 Foundations of Biology     4
CHEM:1120 Principles of Chemistry II     4
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric     3 - 4
PSY:1001 Elementary Psychology     3

**Hours** 14-15

**Second Year**

**Any Semester**

Shadow a doctor and learn more about the field of medicine in the second year.

Start the search process for a research lab in the second year.

**Fall**

CHEM:2210 Organic Chemistry I     3
MICR:2157 General Microbiology     3
MICR:2158 General Microbiology Laboratory     2
PHYS:1511 College Physics I     4
GE CLAS Core: World Languages First Level Proficiency or elective course     4 - 5

**Hours** 16-17

**Spring**

CHEM:2220 Organic Chemistry II     3
HHP:3500 Human Physiology     3
PHYS:1512 College Physics II     4
STAT:3510 Biostatistics     3
GE CLAS Core: World Languages Second Level Proficiency or elective course     4 - 5

**Hours** 17-18

**Third Year**

**Any Semester**

Students should request letters of reference for medical school applications in the third year.

**Fall**

BIOL:2211 Genes, Genomes, and the Human Condition     3
BMB:3120 Biochemistry and Molecular Biology I     3
CHEM:2410 Organic Chemistry Laboratory     3
GE CLAS Core: Diversity and Inclusion     3
GE CLAS Core: World Languages Second Level Proficiency or elective course     4 - 5

**Hours** 16-17

**Spring**

BIOL:3373 Human Population Genetics and Variation     3
BMB:3130 Biochemistry and Molecular Biology II     3
PSY:2130 Advanced Psychology for Pre-Medical Track or PSY:2930 or CPH:1800 Abnormal Psychology: Health Professions or Social and Psychological Determinants of Health: Changing Behavior, Improving Health     3

**Hours** 16-17
GE CLAS Core: World Languages Fourth Level 4 - 5
Proficiency or elective course
Exam: Take MCAT in spring or summer

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<tr>
<th>Hours</th>
<th>13-14</th>
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Summer
Admission Application: Apply to medical school

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Fourth Year
Fall
Major: elective lecture I 3
Major: experiential elective or elective course 3 - 4
GE CLAS Core: Historical Perspectives 3
GE CLAS Core: International and Global Issues 3

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<th>Hours</th>
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Spring
Major: elective lecture II 3
Major: investigative lab 3 - 4
Major: experiential elective or elective course 3 - 4
GE CLAS Core: Literary, Visual, and Performing Arts 3
GE CLAS Core: Values and Culture 3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)

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<th>Hours</th>
<th>15-17</th>
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Total Hours 119-128

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 MICR:2157 and MICR:2158 should be taken in the same semester.
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 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 complete a total of 15-16 s.h. of elective coursework from approved lists of courses; see General Catalog.
h 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.