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.

Course Title Hours

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 \( a, b \) 4
SOC:1010 Introduction to Sociology \( b \) 3
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric 3 - 4
MATH:1460 Calculus for the Biological Sciences \( b, c \) 4
CSI:1600 Success at Iowa 2

Hours 16-17

Spring

BIOL:1411 Foundations of Biology \( b \) 4
CHEM:1120 Principles of Chemistry II \( b \) 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

MICR:2157 General Microbiology \( d \) 3
MICR:2158 General Microbiology Laboratory \( d \) 2
PHYS:1511 College Physics I 4
CHEM:2220 Organic Chemistry I 3
GE CLAS Core: World Languages First Level Proficiency or elective course \( e \) 4 - 5

Hours 16-17

Spring

HHP:3500 Human Physiology 3
PHYS:1512 College Physics II 4
CHEM:2220 Organic Chemistry II 3
STAT:3510 Biostatistics 3
GE CLAS Core: World Languages Second Level Proficiency or elective course \( e \) 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
BIOC:3120 Biochemistry and Molecular Biology I 3
CHEM:2410 Organic Chemistry Laboratory 3
GE CLAS Core: World Languages Second Level Proficiency or elective course \( e \) 4 - 5

Hours 16-17

Spring

BIOL:3373 Human Population Genetics and Variation 3
BIOC:3130 Biochemistry and Molecular Biology II 3
PSY:2130 Advanced Psychology for Pre-Medical Track 3
GE CLAS Core: World Languages Fourth Level Proficiency or elective course \( e \) 4 - 5
Exam: Take MCAT in spring or summer

Hours 13-14

Summer

Admission Application: Apply to medical school

Hours 0

Fourth Year

Fall

Major: elective lecture I course \( g \) 3
<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: experiential elective or elective course</td>
<td>3 - 4</td>
</tr>
<tr>
<td>GE CLAS Core: International and Global Issues</td>
<td>3</td>
</tr>
<tr>
<td>GE CLAS Core: Diversity and Inclusion</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>12-13</td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: elective lecture II course</td>
<td>3</td>
</tr>
<tr>
<td>Major: investigative lab</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Major: experiential elective or elective course</td>
<td>3 - 4</td>
</tr>
<tr>
<td>GE CLAS Core: Literary, Visual, and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>GE CLAS Core: Values and Culture</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>15-17</td>
</tr>
</tbody>
</table>

**Total Hours** 119-128

- a  Enrollment in chemistry courses requires completion of a placement exam.
- b  Fulfills a major requirement and may fulfill a GE requirement.
- 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 12-17 s.h. of elective coursework from approved lists of courses.
- h  Experiential elective is honors in the major or a second investigative lab course.
- i  See General Catalog for list of approved courses.
- 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.