Biomedical Sciences, BS

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, BS

Course Title Hours
Academic Career
Any Semester

GE CLAS Core: Sustainability a

Hours 0

First Year
Any Semester

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

Hours 0

Fall
CHEM:1110 Principles of Chemistry I b 4
MATH:1460 Calculus for the Biological Sciences c 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

Hours 16-17

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 professional and learn more about the field of medicine in the second or third year.

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

Fall
BIOL:2512 or BIOL:2211 Fundamental Genetics or Genes, Genomes, and the Human Condition 3 - 4
CHEM:2210 Organic Chemistry II 3
PHYS:1511 College Physics I 4

GE CLAS Core: World Languages First Level Proficiency or elective course d

Hours 14-16

Spring
CHEM:2220 Organic Chemistry II e 3
MICR:2157 General Microbiology e 3
MICR:2158 General Microbiology Laboratory e 2
PHYS:1512 College Physics II 4

GE CLAS Core: World Languages Second Level Proficiency or elective course d

Hours 16-17

Third Year
Any Semester

Students should start the search process for letters of recommendation in the third or fourth year.

Fall
BMB:3120 Biochemistry and Molecular Biology I 3
CHEM:2410 Organic Chemistry Laboratory 3
HHP:3500 Human Physiology 3
STAT:3510 Biostatistics 3

GE CLAS Core: World Languages Third Level Proficiency or elective course d

Hours 16-17

Spring
BIOL:3373 Human Population Genetics and Variation 3
BMB:3130 Biochemistry and Molecular Biology II 3

CPH:1800 Social and Psychological Determinants of Health: Changing Behavior, Improving Health or Abnormal Psychology: Health Professions or Advanced Psychology for Pre-Medical Track 3

GE CLAS Core: World Languages Fourth Level Proficiency or elective course d

Hours 16-17
Exam: Take MCAT in spring or summer

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**Summer**
Admission Application: Apply to medical school

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**Fourth Year**

**Fall**

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- Major: elective lecture \( f \)
  - 3

- Major: research experience \( f \)
  - 4

- GE CLAS Core: Diversity and Inclusion \( g \)
  - 3

- GE CLAS Core: Historical Perspectives \( g \)
  - 3

- GE CLAS Core: International and Global Issues \( g \)
  - 3

**Spring**

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- BIOL:4898 Communicating Research \( f \)
  - 2

- Major: elective lecture II \( f \)
  - 3 - 4

- Major: investigative lab \( f \)
  - 3 - 4

- GE CLAS Core: Literary, Visual, and Performing Arts \( g \)
  - 3

- GE CLAS Core: Values and Culture \( g \)
  - 3

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

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**Notes:**

- 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.
- Enrollment in chemistry courses requires completion of a placement exam.
- Enrollment in math courses requires completion of a placement exam.
- 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.
- MICR:2157 and MICR:2158 should be taken in the same semester.
- Students complete a total of 15-17 s.h. of elective coursework from approved lists of courses; see General Catalog.
- 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.
- 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.