# Chemistry, 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.

Courses in the chemistry major have prerequisites, so they must be taken in the correct order. Most advanced courses are taught only once a year. Students should consult their academic advisors and plan their course schedules carefully. They should take CHEM:2021 Fundamentals of Chemical Measurements during the first semester of the second year. Typical chemistry course schedules and a regression list are available at Undergraduate Program in Chemistry on the Department of Chemistry website.

**Before the third semester begins:** mat through MATH:1550 Engineering Mathematics I: Single Variable Calculus or MATH:1850 Calculus I; CHEM:1110 Principles of Chemistry I and CHEM:1120 Principles of Chemistry II, or equivalent coursework.


**Before the seventh semester begins:** six more courses in the major and at least 90 s.h. earned toward the degree.

**Before the eighth semester begins:** three more courses in the major.

**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.

## Chemistry, BS

### Course Title Hours

#### Academic Career

- **GE CLAS Core: Sustainability**

#### Any Semester

- CHEM:1110 Principles of Chemistry I 4
- MATH:1850 Calculus I 4

#### First Year

- **Fall**
  - CHEM:1110 Principles of Chemistry I 4
  - MATH:1850 Calculus I 4

#### Fourth Year

- **Fall**
  - CHEM:3110 Equilibria and Electrochemistry 3

### Hours

- **Fall**
  - 16

- **Spring**
  - 16-17

- **Four-Year Graduation Plan**
  - 15-17

- **GE CLAS Core: Diversity and Inclusion** 3
- **CSI:1600 Success at Iowa** 2

- **Spring**
  - 14-15

- **Third Year**
  - 16-17

- **Spring**
  - 16-17

- **Fall**
  - 0

- **Spring**
  - 16-17

- **Fall**
  - 16-17

- **Spring**
  - 16-17
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) 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.

e) Students who have completed four levels of a single language or two levels of two different languages in high school or college have satisfied the GE CLAS Core World Languages requirement. Students who have completed three levels of a single language may complete a fourth-level course in the same language or may choose an approved World Language and Cultural Exploration course. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course. Contact your academic advisor or CLAS Undergraduate Programs Office with questions concerning the World Languages requirement.

f) Students should take CHEM:2021 during the first semester of the second year.

ge) Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.

h) Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.

i) Students are required to complete 6 s.h. in science electives and research toward the major; refer to the General Catalog for list of approved courses.

j) 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.

k) Students who want an ACS certified degree must complete one of these optional courses: BMB:3110 or BMB:3120.

l) 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 Degree Services.