Chemistry, 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.

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 seventh semester begins: two more courses in the major; PHYS:1511 College Physics I–PHYS:1512 College Physics II or PHYS:1611 Introductory Physics I–PHYS:1612 Introductory Physics II; and at least 90 s.h. earned toward the degree.

Before the eighth semester begins: CHEM:4430 Principles of Physical Chemistry and one more course 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, BA

Course Title Hours

Academic Career

Any Semester

GE CLAS Core: Sustainability

Academic Year

Fall

CHEM:1110 Principles of Chemistry I 3
ENGL:1200 The Interpretation of Literature or RHET:1030 Rhetoric

Spring

CHEM:1120 Principles of Chemistry II or RHET:1030 Rhetoric

Hours 16-17

Second Year

Fall

CHEM:2021 Fundamentals of Chemical Measurements
CHEM:2230 Organic Chemistry I for Majors
ENGL:1200 The Interpretation of Literature or RHET:1030 Rhetoric
GE CLAS Core: World Languages Second Level Proficiency or elective course
Elective course

Hours 16-18

Spring

CHEM:2240 Organic Chemistry II for Majors
CHEM:2420 Organic Chemistry Laboratory for Majors
STAT:3510 Biostatistics
GE CLAS Core: Historical Perspectives
GE CLAS Core: World Languages Third Level Proficiency or elective course

Hours 16-17

Third Year

Fall

CHEM:3120 Spectroscopy and Separations or Equilibria and Electrochemistry or CHEM:3110
PHYS:1511 College Physics I
GE CLAS Core: Values and Culture
GE CLAS Core: World Languages Fourth Level Proficiency or elective course
Elective course

Hours 17-18

Spring

CHEM:3250 Inorganic Chemistry
PHYS:1512 College Physics II
Major: science elective course
GE CLAS Core: Literary, Visual, and Performing Arts
GE CLAS Core: International and Global Issues
Elective course

Hours 16

Fourth Year

Fall

CHEM:4430 Principles of Physical Chemistry
Major: science elective course
GE CLAS Core: International and Global Issues
GE CLAS Core: International and Global Issues
Elective course

Hours 15
### Spring

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<th>Course</th>
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<tr>
<td>CHEM:4450 Synthesis and Measurement</td>
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<tr>
<td>GE CLAS Core: Social Sciences</td>
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**Degree Application:** apply on MyUI before deadline (typically in February for spring, September for fall)

**Total Hours:** 15

126-132

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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.

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 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. 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.

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

i. Typically CHEM:3110 is offered in fall semesters only and CHEM:3120 is offered spring semesters only. Check MyUI for course availability since offerings are subject to change.

j. Students are required to complete 6 s.h. of science electives chosen from a list of approved courses. Students who have used a course to fulfill another requirement for the major may not use that course as a science elective.

k. 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.