## Bachelor of Science in Chemistry (dual degree in Education)

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<thead>
<tr>
<th>Name (Last, first)</th>
<th>Student Number</th>
<th>Date</th>
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<tr>
<th>First Semester at MU</th>
<th>Anticipated Graduation Date</th>
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<tr>
<td>2023</td>
<td>2026</td>
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### Required Chemistry Courses

- College Chemistry I with Lab 1320 4 hrs.
- College Chemistry II with Lab 1330 4 hrs.
- Organic Chemistry I 2100 3 hrs.
- Organic Chemistry II 2110 3 hrs.
- Organic Laboratory I 2130 2 hrs.
- Organic Laboratory II 2140 2 hrs.
- Fundamentals of Inorganic Chem. 2400 3 hrs.
- Quantitative Methods of Analysis 3200 4 hrs.
- Fundamentals of Physical Chem. 3300 3 hrs.
- Undergraduate Seminar in Chem. 3700 3 hrs.
- Chemistry Teaching Practicum 3800 3 hrs.

### Required Math and Physics Courses

- Calculus I (MATH 1500) 5 hrs.
- Calculus II (MATH 1700) 5 hrs.
- College Physics I (PHYS 1210) 4 hrs.
- College Physics II (PHYS 1220) 4 hrs.

### Other Required Science Courses

- Environmental Geology (GEOL 1200) 3 hrs.
- Intro. to Biological Systems with Lab (BIO SCI 1500) 5 hrs.
- General Biochemistry (BIOCHM 3630) 3 hrs.

**Pick one of the following:**

- Intro. to Astronomy (ASTRON 1010) 4 hrs.
- Intro. to Meteorology (ATM_SC 1050) 3 hrs.

### Substitutions:

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After completing and signing this form, have it signed and dated by your advisor and the Associate Chair for Undergraduate Studies (currently Prof. Keller, 213 Chemistry, KellerS@missouri.edu). You then will need to make two photocopies of the signed form and schedule an appointment to submit all three copies to the A&S Dean’s Office, 107 Lowry Hall, (573)882-6411.

<table>
<thead>
<tr>
<th>Student</th>
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<th>Advisor</th>
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<tr>
<th>Associate Chair</th>
<th>Date</th>
<th>Arts and Science Dean</th>
<th>Date</th>
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### COLLEGE OF ARTS AND SCIENCE FOUNDATION (Basic Skills), University General Education and Graduation Requirements

**Bachelor of Science (in Chemistry, Geological Sciences, Mathematics, Physics, and Statistics) Degree**

(List courses already completed and courses to be completed)

**E1 - General Education, G - Graduation, B - Basic Skills, O - course may be used for other degree requirements**

All General Education and Graduation requirements must be met with a grade of C- or better (except for the American Gov/History requirement)

<table>
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<tr>
<th>English 1000 or Equivalent E1, B</th>
<th>Semester</th>
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<tr>
<td>Writing Intensive I (1000+) E1, O</td>
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<tr>
<td>Writing Intensive II (3000+) G, O</td>
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<tr>
<th>Math 1100/1120, 1160, 1180 E1, B</th>
<th>Semester</th>
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<tr>
<td>Math Reasoning Proficiency E1, B, O</td>
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<tr>
<th>Capstone O</th>
<th>Semester</th>
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**American Government or History E1, B, O**

**Foreign Language (generally 12-13 hours; must in the same language) or Foreign Language Alternative (12 hours) B**

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<thead>
<tr>
<th>Department/Course #</th>
<th>Semester</th>
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### COLLEGE OF ARTS AND SCIENCE FOUNDATION (Breadth of Study and Depth of Study) Requirements

(List courses already completed and courses to be completed)

— Arts and Science Foundation courses satisfy the MU Distribution of Content requirement for an Arts and Science degree —

(if student is pursuing a second non-A&S degree and/or transfers to another division, check with the appropriate advisor concerning courses meeting MU Distribution of Content requirement)

<table>
<thead>
<tr>
<th>Department and Course Number</th>
<th>Semester/Grade</th>
<th>Credit Hours</th>
<th>Total Hours</th>
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**Area 1 — Biological, Physical, and Mathematical Sciences**

9 hours minimum covering at least 2 of 3 categories (must include 1 science lab).

This requirement is met with coursework required for the major.

**Area 2 — Behavioral and Social Sciences**

9 hours minimum including 1 behavioral science course and 1 social science course. Examples include Behavioral anthropology, psychology and sociology; Social: economics, geography, history and political science.

**Area 3 — Humanities and Fine Arts**

9 hours minimum covering at least 2 subjects. Examples include appreciation of art, music or theater; classical humanities; creative and performing arts; foreign civilizations; history of art; music or theater; literature, philosophy, and religious studies.

Two 2000 level or above Arts & Science approved courses (minimum 6 hours) must be taken from 2 of the following 3 areas: Behavioral Sciences; Social Science; Humanities and Fine Arts. One course must be an MU course.

In order to graduate, students must complete a minimum of:

- 120 hours of degree applicable credit (including major, foundation courses, general education, minor (optional), and electives) including (B) 10 hours numbered 3000 or above. You will receive an e-mail stating progress toward requirements A and B. This information is also available at 107 Lowry Hall a few weeks after filing this graduation plan.

- 2.0 cumulative GPA
- 2.0 major GPA
- 2.0 minor GPA
- 2.0 GPA in the final 30 hours
- 2.0 GPA in the final 60 hours

*Consult the A&S Advising Web site for courses that meet A&S Foundation requirements*

*Only A&S courses (and selected Black Studies, Peace Studies, Women’s and Gender Studies and Honors College courses) will count toward the 2000 level or higher course requirement*

*Only one non-A&S course may be counted in each of the 3 areas*

*Courses in the major department may not be used to fulfill A&S Foundation (Breadth of Study and Depth of Study) requirements*

*Courses in an A&S minor may not be used to fulfill A&S Foundation requirements*

*30 of the last 36 hours must be taken as MU courses*

*In order to graduate, students must have the following Grade Point Averages (GPAs):*

- 2.0 cumulative GPA
- 2.0 major GPA
- 2.0 minor GPA
- 2.0 GPA in the final 30 hours
- 2.0 GPA in the final 60 hours

*Consult the A&S Advising Web site for courses that meet A&S Foundation requirements*

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