# Bachelor of Science in Chemistry (non-comprehensive)

This is a model four-year graduation plan. Your path to graduation may vary slightly based on factors such as college credit you earned while in high school and your choice of general education electives.

This degree program can be completed in eight semesters.

<table>
<thead>
<tr>
<th>First Semester (Fall)</th>
<th>Second Semester (Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEP 101 First Yr. Foundations</td>
<td>2 hrs</td>
</tr>
<tr>
<td>ENG 110 Writing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 160 Gen. Chem. I</td>
<td>4 hrs</td>
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<tr>
<td>CHM 161 Gen. Chem. I Lab</td>
<td>1 hr</td>
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<tr>
<td>MTH 261 or 287 Anal. Geo./Calc. I</td>
<td>3-5 hrs</td>
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<tr>
<td>Total Hours</td>
<td>13-15 hrs</td>
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<thead>
<tr>
<th>Third Semester (Fall)</th>
<th>Fourth Semester (Spring)</th>
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<tbody>
<tr>
<td>CHM 342 Organic Chem. I</td>
<td>5 hrs</td>
</tr>
<tr>
<td>ENG 210 Writing II</td>
<td>3 hrs</td>
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<tr>
<td>CHM 302 Intro to Analytical Chemistry</td>
<td>5 hrs</td>
</tr>
<tr>
<td>Human Cultures: Soc./Behav. Sciences</td>
<td>3 hrs</td>
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<tr>
<td>Total Hours</td>
<td>16 hrs</td>
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<thead>
<tr>
<th>Fifth Semester (Fall)</th>
<th>Sixth Semester (Spring)</th>
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<tbody>
<tr>
<td>PHY 124</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Inorganic Chemistry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Course for Minor</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HST 121 or 122 U.S. History</td>
<td>3 hrs</td>
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<tr>
<td>Public Affairs: Cultural Competence elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 399 Undergraduate Investigations</td>
<td>1 hr</td>
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<tr>
<td>Total Hours</td>
<td>17 hrs</td>
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<thead>
<tr>
<th>Seventh Semester (Fall)</th>
<th>Eighth Semester (Spring)</th>
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<tbody>
<tr>
<td>CHM 502 Instrumental Analysis</td>
<td>4 hrs</td>
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<tr>
<td>Chemistry Electives*</td>
<td>3 hrs</td>
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<tr>
<td>Course for Minor</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Public Affairs: Cultural Competence elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 498 Chemistry Careers</td>
<td>3 hrs</td>
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<tr>
<td>Total Hours</td>
<td>16 hrs</td>
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</tbody>
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*Chemistry electives: CHM 352, 376, 399 or 499 (2-3 hr), 452, 453, 460 or 461, 462, 509, 552, 553.

GPA Requirements include: 2.0 in major and minor fields (Chemistry and Mathematics).

Other Requirements include: 40 hours must be in upper level courses (300 level or above).

1Courses offered only in the Fall.
2Courses offered only in the Spring.
3CHM 505 may be substituted for CHM 506, 507 and 508.

Updated, June 2016
Requirements for Non-Comprehensive Chemistry Major (BS)

- General Education Requirements (43-54 hours)
- Chemistry Requirements (42-43 hours)
- Other Requirements (24 hours)
- Chemistry Electives (8-10 hours)
- Minor required
- Total Hours - 125
- See sample schedule on back
- Undergraduate Catalog - gives more general information and course information for Missouri State University undergraduates

Major Requirements

- General Chemistry - CHM 160, 161, 170 and 171
- Organic Chemistry - CHM 342 and 343
- Introduction to Analytical Chemistry - CHM 302
- Inorganic Chemistry - CHM 375
- Physical Chemistry - CHM 506, 507 and 508 or CHM 505
- Techniques of Instrumental Analysis - CHM 502
- Seminar Classes - CHM 398 and 498
- Independent Project - CHM 397, 399 or 499

Emphasis Requirements

- Basic Option - CHM 352, 376, 399 or 499 (2-3 hours), 460 or 461, 509
- Environmental Option - CHM 460, 461, 462
- Biochemistry Option - CHM 452, 453, 552, 553

Related Requirements

- Mathematics - MTH 261 and 280 or MTH 261 and 288 or MTH 287 and 288
- Physics - PHY 123 and 124 or PHY 203 and 204
- A minor is required

Chemistry Courses

CHM 160 - General Chemistry I
CHM 161 - General Chemistry I Lab
CHM 170 - General Chemistry II
CHM 171 - General Chemistry II Lab
CHM 302 - Intro to Anal. Chem.
CHM 342 - Organic Chemistry I
CHM 343 - Organic Chemistry II
CHM 352 - Introduction to Biochemistry
CHM 375 - Inorganic Chemistry
CHM 376 - Inorganic Preparation
CHM 398 - Chemical Symposium
CHM 399 - Undergraduate Investigations
CHM 452 - Biochemistry I
CHM 453 - Biochemistry Lab I
CHM 460 - Environmental Chemistry I
CHM 461 - Environmental Chemistry II
CHM 462 - Environmental Chemistry Laboratory
CHM 498 - Chemistry Careers
CHM 499 - Advanced Undergraduate Research
CHM 502 - Techniques of Instrumental Analysis
CHM 505 - Fundamentals of Physical Chemistry
CHM 506 - Physical Chemistry I
CHM 507 - Physical Chemistry II
CHM 508 - Beginning Physical Chemistry Lab
CHM 509 - Physical Chemistry Lab II
CHM 552 - Biochemistry II
CHM 553 - Advanced Biochemistry Lab

Chemistry Advisors Contact Information:

Basic Option -
Erich Steinle (A-H)
Temple 417
417-836-5319
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Rich Biagioni (Q-Z)
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Environmental Option -
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Biochemistry Option -
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EO/AA