2015-2016 Catalog Year - MAPP
Chemistry BS or Chemistry (Environmental Chemistry) BS

**ASU Major**

Chemistry, BS - [College of Liberal Arts and Sciences]
Chemistry (Environmental Chemistry), BS - [College of Liberal Arts and Sciences]

**Special Requirements**

Completion of the MAPP and all special requirements satisfies the requirements for MCCCD Associate in Science degree and AGEC-S, meets major map requirements at ASU, and guarantees admission to the Chemistry B.S. or Chemistry (Environmental Chemistry) B.S. degree program. Special requirements: 2.0 GPA in coursework used to satisfy MAPP requirements. All courses must be completed with a “C” or better.

**Maricopa Community College District Course Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Pathway</th>
<th>AGEC-S</th>
<th>Program</th>
<th>ASU</th>
<th>ASU</th>
<th>Min.</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>First Year Composition</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 101: First-Year Composition</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR ENG 1101</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR ENG 107: First-Year Composition for ESL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 102: First-Year Composition</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR ENG 1102</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR ENG 108: First-Year Composition for ESL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Literacy and Critical Inquiry</strong></td>
<td>0-3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Recommend selecting a course which satisfies L (Literacy and Critical Inquiry) and SB (Social &amp; Behavioral Sciences) OR L and HU (Humanities and Fine Arts) OR L and COM OR L and CRE 101</td>
</tr>
<tr>
<td>Lower Division Literacy and Critical Inquiry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Mathematical Studies
MAT 220: Calculus With Analytic Geometry I  
MAT 2220 OR  
MAT 221: Calculus With Analytic Geometry I  
MAT 2220  
4-5  
C

### Humanities, Arts, and Design
Lower Division Humanities, Arts, and Design  
3  
C

### Social-Behavioral Science
Lower Division Social-Behavioral Science  
3  
C

### Natural Science
CHM 150: General Chemistry I  
CHM 1151 AND  
CHM 151LL: General Chemistry I Laboratory  
CHM 1151 OR  
CHM 151: General Chemistry I  
CHM 1151 AND  
CHM 151LL: General Chemistry I Laboratory  
CHM 1151 OR  
CHM 150AA: General Chemistry I  
CHM 1151 OR  
4-5  
C
CHM 151AA: General Chemistry I
CHM 1151

CHM 152: General Chemistry II
CHM 1152 AND CHM 152LL: General Chemistry II Laboratory
CHM 1152 OR CHM 152AA: General Chemistry II

Subject Options
MAT 230: Calculus With Analytic Geometry II
MAT 2230 OR MAT 231: Calculus With Analytic Geometry II
MAT 2230

MAT 240: Calculus With Analytic Geometry III
MAT 2241 OR MAT 241: Calculus With Analytic Geometry III
MAT 2241

AGEC Awareness Areas
Lower Division Cultural Diversity in the US [C]
Lower Division Historical or Global [H] or [G]

MCCCD Additional Requirements
COM 100: Introduction to Human Communication
COM 1100 OR COM 110: Interpersonal Communication OR
COM 225: Public Speaking OR COM 230: Small Group Communication
CRE 101: College Critical Reading
Complete CRE 101 or equivalent.

Additional Lower Division Requirements
CHM 235: General Organic Chemistry I
CHM 2235 AND CHM 235LL: General Organic Chemistry II
<table>
<thead>
<tr>
<th>Course Description</th>
<th>Units</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry I Laboratory CHM 2235</td>
<td>4</td>
<td>C</td>
</tr>
<tr>
<td>CHM 236: General Organic Chemistry IIA CHM 2236</td>
<td>4</td>
<td>C</td>
</tr>
<tr>
<td>AND</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHM 236LL: General Organic Chemistry IIA Laboratory CHM 2236</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 225: Elementary Linear Algebra</td>
<td>3</td>
<td>C</td>
</tr>
<tr>
<td>MAT 276: Modern Differential Equations OR MAT 262: Differential Equations</td>
<td>3</td>
<td>C</td>
</tr>
<tr>
<td>PHY 121: University Physics I: Mechanics</td>
<td>4</td>
<td>C</td>
</tr>
<tr>
<td>PHY 131: University Physics II: Electricity and Magnetism</td>
<td>4</td>
<td>C</td>
</tr>
<tr>
<td>Lower Division Computer/Statistics/Quantitative Applications</td>
<td>3</td>
<td>C</td>
</tr>
<tr>
<td>Lower Division Elective</td>
<td>1-0</td>
<td>C</td>
</tr>
</tbody>
</table>

An equivalent to CHM 240 is not offered at AZ Community Colleges. Five units of "elective" will be satisfied by MAT 225 and MAT 262 or MAT 276 for the AZ community college student.

Lower Division Electives should be completed once all other requirements have been met and only if needed to complete community college's
ASU will accept transfer credit for traditional course work you have successfully completed at regionally accredited institutions of higher education. The applicability of the specific course toward a degree depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Students are responsible for working with their advisor to confirm all transfer transcripts are on file with ASU. For more information: https://transfer.asu.edu/credits