2014-2015 Catalog Year - MAPP
Biochemistry BS

ASU Major
Biochemistry, 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 Biochemistry B.S. degree program. Special Requirements: 2.0 GPA in coursework used to satisfy MAPP requirements. All courses must be completed with a grade of "C" or better.

Maricopa Community College District Course Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Pathway</th>
<th>AGECS Program</th>
<th>ASU</th>
<th>ASU Trk</th>
<th>Min. Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td>First Year Composition</td>
<td></td>
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<tr>
<td>ENG 101:</td>
<td>3</td>
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<tr>
<td>First-Year Composition [SUNO]</td>
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<tr>
<td>ENG 1101 OR ENG 107:</td>
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<tr>
<td>First-Year Composition for ESL</td>
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<tr>
<td>ENG 1102 OR ENG 108:</td>
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<tr>
<td>First-Year Composition for ESL</td>
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<tr>
<td>Literacy and Critical Inquiry</td>
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<tr>
<td>Lower Division</td>
<td>0-3</td>
<td></td>
<td></td>
<td></td>
<td>C</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</td>
</tr>
</tbody>
</table>
and CRE 101 requirements simultaneously.

### Mathematical Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>MAT 221: Calculus with Analytic Geometry I</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>MAT 2220</td>
<td></td>
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</table>

### Humanities and Fine Arts

<table>
<thead>
<tr>
<th>Category</th>
<th>Units</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities and Fine Arts</td>
<td>6</td>
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</table>

### Social-Behavioral Science

<table>
<thead>
<tr>
<th>Category</th>
<th>Units</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Social and Behavioral Science</td>
<td>6</td>
<td>C</td>
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</table>

### Natural Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>BIO 181: General Biology (Majors) I</td>
<td>4</td>
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<tr>
<td>BIO 182: General Biology (Majors) II</td>
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</table>

### Subject Options

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Credits</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CHM 151: General Chemistry I</td>
<td>4-5</td>
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<tr>
<td>CHM 151LL: General Chemistry I Laboratory</td>
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<tr>
<td>CHM 1151 OR CHM 150AA: General Chemistry</td>
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<td></td>
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<tr>
<td>CHM 151AA: General Chemistry</td>
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<tr>
<td>CHM 152: General Chemistry II</td>
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</table>

Page 2
CHM 152LL:
General Chemistry
II Laboratory

<table>
<thead>
<tr>
<th>AGEC Awareness Areas</th>
<th>0-3</th>
<th>C</th>
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<tbody>
<tr>
<td>Lower Division in the US [C]</td>
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<tr>
<td>Lower Division in Historical or Global [H] or [G]</td>
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</table>

<table>
<thead>
<tr>
<th>MCCCD Additional Requirements</th>
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<tbody>
<tr>
<td>COM 100: Introduction to Human Communication</td>
<td>0-3</td>
<td>C</td>
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<tr>
<td>OR COM 110: Interpersonal Communication</td>
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<tr>
<td>OR COM 225: Public Speaking OR COM 230: Small</td>
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<tr>
<td>Group Communication</td>
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</tr>
<tr>
<td>CRE 101: College Critical Reading</td>
<td>0-3</td>
<td>C</td>
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<tr>
<td>Complete CRE 101 or equivalent</td>
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</table>

<table>
<thead>
<tr>
<th>Additional Lower Division Requirements</th>
<th>4</th>
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<tbody>
<tr>
<td>CHM 235: General Organic Chemistry I</td>
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<tr>
<td>CHM 2235 AND CHM 235LL: General Organic Chemistry I Laboratory</td>
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<tr>
<td>PHY 111: General Physics I</td>
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<tr>
<td>PHY 1111</td>
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<tr>
<td>PHY 112: General Physics II</td>
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<td>C</td>
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<tr>
<td>PHY 1112</td>
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</tr>
<tr>
<td>MAT 231:</td>
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</table>
Calculus with Analytic Geometry II **SUNY**
MAT 2230

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
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<tbody>
<tr>
<td>CHM 236: General Organic Chemistry IIA <strong>SUNY</strong> CHM 2236 AND CHM 236LL: General Organic Chemistry IIA Laboratory <strong>SUNY</strong> CHM 2236</td>
<td>4</td>
<td>C</td>
</tr>
<tr>
<td>Lower Division Elective</td>
<td>2-0</td>
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</table>

Lower Division Electives should be completed once all other requirements have been met and only if needed to complete community college’s associate degree requirements.

Required Credits 60

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](https://transfer.asu.edu/credits)