2014-2015 Catalog Year - MAPP
Molecular Biosciences/Biotechnology, BS

ASU Major

Molecular Biosciences and Biotechnology, 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 Biological Sciences 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 Credit</th>
<th>AGEC-S Program</th>
<th>ASU Trk</th>
<th>ASU LD</th>
<th>Min.</th>
<th>Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td><strong>First Year Composition</strong></td>
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<tr>
<td>ENG 101: First-Year Composition</td>
<td>3</td>
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<td>ENG 1101 OR ENG 107: First-Year Composition for ESL</td>
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<tr>
<td>ENG 102: First-Year Composition</td>
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<tr>
<td>ENG 1102 OR ENG 108: First-Year Composition for ESL</td>
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<tr>
<td><strong>Literacy and Critical Inquiry</strong></td>
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<tr>
<td>Lower Division Literacy and Critical Inquiry</td>
<td>0-3</td>
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<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**
- MAT 220: Calculus with Analytic Geometry 4-5 C

**Humanities and Fine Arts**
- Lower Division 6 C

**Social-Behavioral Science**
- Lower Division 6 C

**Natural Science**
- BIO 181: General Biology (Majors) I 4 C

**Subject Options**
- CHM 151: General Chemistry I 4 C
- CHM 151LL: General Chemistry I Laboratory 4 C
- CHM 152: General Chemistry II 4 C
CHM 152LL: General Chemistry II Laboratory
OR
CHM 152AA: General Chemistry II

AGEC Awareness Areas
Lower Division 0-3 C
Cultural Diversity in the US [C]
Lower Division 0-3 C
Historical or Global [H] or [G]

MCCCD Additional Requirements
COM 100: 0-3 C
Introduction to Human Communication
OR
COM 110: Interpersonal Communication
OR
COM 225: Public Speaking OR
COM 230: Small Group Communication

CRE 101: College Critical Reading 0-3 C Complete CRE 101 or equivalent

Additional Lower Division Requirements
BIO 212AA: 4 C
Biotechnology I
BIO 220: Biology of Microorganisms 0-4 C BIO 220 - may be taken after transfer to ASU.
CHM 230: 4 C Students planning to attend medical school should take CHM 235/235LL if possible.
CHM 230LL: Fundamental Organic Chemistry
AND
CHM 230LL: Fundamental
Organic Chemistry Laboratory **SUN**
CHM 2230 OR
CHM 235:
General Organic Chemistry I **SUN**
CHM 2235 AND
CHM 235LL:
General Organic Chemistry I Laboratory **SUN**
CHM 2235

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CHM 236: General Organic Chemistry IIA <strong>SUN</strong> CHM 2236 AND CHM 236LL: General Organic Chemistry IIA Laboratory <strong>SUN</strong> CHM 2236</td>
<td>4-0</td>
<td>C</td>
<td>CHM 236/236LL only required if completed CHM 235/235LL to complete Organic Chemistry requirement.</td>
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<td>MAT 206: Elements Of Statistics <strong>SUN</strong> MAT 1160</td>
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<tr>
<td>PHY 101: Introduction to Physics OR PHY 111: General Physics I <strong>SUN</strong> PHY 1111 AND PHY 112: General Physics II <strong>SUN</strong> PHY 1112</td>
<td>4-8</td>
<td>C</td>
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<tr>
<td>Lower Division Elective</td>
<td>4-0</td>
<td>C</td>
<td>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.</td>
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</table>

**Required Credits** 61
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