**2014-2015 Catalog Year - MAPP**

**Microbiology BS**

**ASU Major**

Microbiology, 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 Microbiology 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>AGEC-S Credits</th>
<th>Program Reqs</th>
<th>ASU ASU Trk</th>
<th>Min. LD</th>
<th>Grade</th>
<th>Notes</th>
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<tbody>
<tr>
<td><strong>First Year Composition</strong></td>
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<td>ENG 101: First-Year Composition</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>
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Recommend selecting a course which satisfies L (Literacy and Critical Inquiry) and SB (Social & Behavioral Sciences) OR L and HU (Humanities and Fine Arts) OR L and COM OR L.
and CRE 101 requirements simultaneously.

Mathematical Studies
MAT 220: 4-5  
Calculus With Analytic Geometry
MAT 220

OR
MAT 221: 4-5  
Calculus With Analytic Geometry
MAT 220

Humanities and Fine Arts
Lower Division 6  
Humanities and Fine Arts

Social-Behavioral Science
Lower Division 6  
Social and Behavioral Sciences

Natural Science
BIO 181: General Biology (Majors) I 4  
BIO 1181

BIO 182: General Biology (Majors) II 4  
BIO 1182

Subject Options
CHM 151: 4-5  
General Chemistry
CHM 1151

AND
CHM 151LL:  
General Chemistry
CHM 1151 OR

CHM 150AA:  
General Chemistry
CHM 1151 OR

CHM 151AA:  
General Chemistry
CHM 1151
CHM 152: General Chemistry II 4 C
CHM 1152 AND CHM 152LL: General Chemistry II Laboratory 4 C

<table>
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<tr>
<th>General Education Awareness Areas</th>
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<tbody>
<tr>
<td>Lower Division Cultural Diversity in the US [C]</td>
<td>0-3 C</td>
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<tr>
<td>Lower Division Historical or Global [H] or [G]</td>
<td>0-3 C</td>
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<tr>
<th>MCCCD Additional Requirements</th>
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<tbody>
<tr>
<td>COM 100: Introduction to Human Communication</td>
<td>0-3 C</td>
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<tr>
<td>OR COM 110: Interpersonal Communication OR COM 225: Public Speaking OR COM 230: Small Group Communication</td>
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<tr>
<td>CRE 101: College Critical Reading</td>
<td>0-3 C</td>
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<td>Complete CRE 101 or equivalent</td>
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<tr>
<th>Additional Lower Division Requirements</th>
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<tr>
<td>BIO 220: Biology of Microorganisms</td>
<td>4     C</td>
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<tr>
<td>CHM 230: Fundamental Organic Chemistry</td>
<td>4-8 C</td>
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<td>AND CHM 230 OR CHM 230 OR CHM 230 LL:</td>
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<tr>
<td>Complete either CHM 230/230LL, or CHM 235/235LL AND CHM 236/236LL. Pre-Health students should choose two-semester</td>
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</table>
CHM 235: General Organic Chemistry I
CHM 235 AND CHM 235LL: General Organic Chemistry I Laboratory

CHM 236: General Organic Chemistry IIA
CHM 2236 AND CHM 236: General Organic Chemistry IIA Laboratory

PHY 101: Introduction To Physics OR PHY 111: General Physics I
PHY 111 AND PHY 112: General Physics II
PHY 1112 OR PHY 101AA: Introduction To Physics

MAT 206: Elements Of Statistics
MAT 1160

Lower Division Elective

MCCCD's PHY 111 = ASU's PHY 111 and PHY 113.
MCCCD's PHY 112 = ASU's PHY 112 and PHY 114.

Pre-Health students should choose two-semester options for chemistry and physics.

Lower Division Electives should be completed once all other requirements have been met and only if needed to complete community
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