# 2018 - 2019 Major Map

**Applied Biological Sciences (Applied Biological Sciences), BS**

**School/College:** College of Integrative Sciences and Arts  
**Location:** Polytechnic campus

## Term 1 - 14 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIO 181: General Biology I (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>MAT 210: Brief Calculus (MA) OR MAT 251: Calculus for Life Sciences (MA)</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ASU 101-UC: The ASU Experience</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Social-Behavioral Sciences (SB)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- An SAT, ACT, Accuplacer, IELTS or TOEFL score determines placement into first-year composition courses
- ASU Mathematics Placement Assessment score determines placement in mathematics course
- ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students
- Select your career interest area and play me3@ASU.

## Term 2 - 14 - 28 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BIO 182: General Biology II (SG)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>CHM 113: General Chemistry I (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities, Arts and Design (HU)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- Join a student club or professional organization.

## Term 3 - 28 - 42 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHM 116: General Chemistry II (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 101: Introduction to Physics (SQ) OR PHY 111: General Physics (SQ) AND PHY 113: General Physics Laboratory (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Applied Biological Sciences Track</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Humanities, Arts and Design (HU)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Complete Mathematics (MA) requirement.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 14

- Students considering Graduate school or health professions should complete the PHY 111/113 and PHY 112/114 sequence. All other students will complete PHY 101 and elective hours.
- Secure a part-time job or volunteer experience.

## Term 4 - 42 - 58 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 231: Elementary Organic Chemistry (SQ) AND CHM 235: General Organic Chemistry Laboratory (SQ) OR CHM 233: General Organic Chemistry Laboratory I</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 112: General Physics (SQ) AND PHY 114: General Physics Laboratory (SQ) OR Elective</strong></td>
<td>3-4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Literacy and Critical Inquiry (L)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Students considering graduate school or health professions should complete the following: CHM 233 and CHM 237 and CHM 234 and CHM 238 (instead of CHM 231 and CHM 235).
### Applied Biological Sciences Health Track

- Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C) 3
- Elective 3

**Term hours subtotal:** 16-17

<table>
<thead>
<tr>
<th>Term 5 58 - 74 Credit Hours Necessary course signified by ⭐</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>⭐ ABS 370: Ecology</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II OR Elective</td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Applied Biological Sciences Track</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Upper Division Humanities, Arts and Design (HU) AND Historical Awareness (H) OR Upper Division Social-Behavioral Sciences (SB) AND Historical Awareness (H)</td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 16

### Term 6 74 - 87 Credit Hours Necessary course signified by ⭐

- Upper Division Applied Biological Sciences Track 3
- Global Awareness (G) 3
- Elective 4
- Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

**Term hours subtotal:** 13

### Term 7 87 - 104 Credit Hours Necessary course signified by ⭐

- ABS 490: Applied Biological Sciences Seminar 1
- BIO 340: General Genetics 4
- Upper Division Literacy and Critical Inquiry (L) 3
- Upper Division Elective 3

**Term hours subtotal:** 17

### Term 8 104 - 120 Credit Hours Necessary course signified by ⭐

- Complete 2 courses: Upper Division Applied Biological Sciences Track 6
- Complete 3 courses: Upper Division Elective 10

**Term hours subtotal:** 16

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- Use Handshake to research employment opportunities.
- Network in your career interest area.
- Gather professional references.
- Apply for full-time career opportunities.

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Hide Course List(s)/Track Group(s)

- Applied Biological Sciences Health Track
- General Biology Track
Students must complete a minimum of 12 credit hours of science courses offered by the College of Integrative Sciences and Arts.
Select from ABS, CHM, BIO, PHY, and MIC prefixes.

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  Select from ABS, CHM, BIO, PHY, and MIC prefixes.

**General University Requirements Legend**

**General Studies Core Requirements:**
- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

**General Studies Awareness Requirements:**
- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

**First-Year Composition**

**Total Hours:** 120
**Upper Division Hours:** 45 minimum
**Major GPA:** 2.00 minimum
**Cumulative GPA:** 2.00 minimum
**Total hrs at ASU:** 30 minimum
**Hrs Resident Credit for Academic Recognition:** 56 minimum
**Total Community College Hrs:** 64 maximum
General Studies designations listed on the major map are current for the 2018 - 2019 academic year.