## 2021 - 2022 Major Map

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

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

### Term 1 0 - 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>ASU 101-CLS: The ASU Experience</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101</strong> OR <strong>ENG 102: First-Year Composition</strong> OR <strong>ENG 105: Advanced First-Year Composition</strong> OR <strong>ENG 107</strong> OR <strong>ENG 108: First-Year Composition</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>MAT 251: Calculus for Life Sciences (MA)</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB) AND Global Awareness (G)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Term hours subtotal:</strong></td>
<td>14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>ENG 101</strong> OR <strong>ENG 102: First-Year Composition</strong> OR <strong>ENG 105: Advanced First-Year Composition</strong> OR <strong>ENG 107</strong> OR <strong>ENG 108: First-Year Composition</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>PHY 101: Introduction to Physics (SQ)</strong> OR <strong>PHY 111: General Physics (SQ)</strong> AND <strong>PHY 113: General Physics Laboratory (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU)</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>
<tr>
<td><strong>Term hours subtotal:</strong></td>
<td>14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Term 3 28 - 44 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 113: General Chemistry I (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Historical Awareness (H)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Literacy and Critical Inquiry (L)</strong></td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elective</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>
<tr>
<td><strong>Term hours subtotal:</strong></td>
<td>16</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Term 4 44 - 58 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ABS 260: Fundamentals of Sustainable Horticulture (SG)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>CHM 116: General Chemistry II (SQ)</strong></td>
<td>4</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td><strong>Sustainable Horticulture Elective</strong></td>
<td>3</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>

- Students considering graduate school or health professions should complete the PHY 111/113 and PHY 112/114 sequence, using PHY 112/114 in place of electives. All other students will complete PHY 101.  
- Join a student club or professional organization.
Term 5 58 - 75 Credit Hours | Necessary course signified by ✨ | Hours | Minimum Grade
--- | --- | --- | ---
ABS 363: Sustainable Landscape Practice | 4 | C
ABS 370: Ecology | 3 | C
Upper Division Elective | 3 | 
Elective | 3 |
--- | --- | --- | ---
**Term hours subtotal:** | **14** | | 

- Students considering graduate school or health professions should complete the Organic Chemistry Sequence of both CHM 233/237 and CHM 234/238 sequence, using CHM 234/238 in place of electives. All other students will complete CHM 231/235.
- Build your professional connections -- join the ASU Mentor Network.
- Connect with faculty to seek opportunities for research.

Term 6 75 - 89 Credit Hours | Necessary course signified by ✨ | Hours | Minimum Grade
--- | --- | --- | ---
ABS 368: Plant Propagation | 3 | C
BIO 340: General Genetics | 4 | C
ABS 362: Landscape Plants | 4 | C
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) | 3 |
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s). |  |
--- | --- | --- | ---
**Term hours subtotal:** | **14** | | 

- Use Handshake to research employment opportunities.

Term 7 89 - 104 Credit Hours | Necessary course signified by ✨ | Hours | Minimum Grade
--- | --- | --- | ---
ABS 350: Applied Statistics (CS) | 3 | C
ABS 464: Desert Horticulture | 3 | C
Upper Division Literacy and Critical Inquiry (L) | 3 |
--- | --- | --- | ---
**Term hours subtotal:** | **15** | | 

- Gather professional references.
- Apply for full-time career opportunities.

Term 8 104 - 120 Credit Hours | Necessary course signified by ✨ | Hours | Minimum Grade
--- | --- | --- | ---
ABS 490: Applied Biological Sciences Seminar | 1 | C
Upper Division Sustainable Horticulture Elective | 3 | C
Complete 2 courses: Upper Division Elective | 5 |
Complete 2 courses: Elective | 7 |
--- | --- | --- | ---
**Term hours subtotal:** | **16** | | 

- Complete 2 courses: Upper Division Elective
- Complete 2 courses: Elective
First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: https://cisa.asu.edu/DSP

• Mathematics Placement Assessment score determines placement in first mathematics course.

Notes:

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 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

General Studies designations listed on the major map are current for the 2021 - 2022 academic year.