### 2021 - 2022 Major Map

**Biological Sciences (Biology and Society), BS**

**School/College:** The College of Liberal Arts and Sciences  
**Location:** Tempe campus

**LABSCSBS**

<table>
<thead>
<tr>
<th>Term 1 0 - 15 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 181: General Biology I (SQ)</td>
<td>4</td>
<td>C</td>
<td>• LIA 101, ASU 101, or other First-Year Seminar required of all first-year students</td>
<td></td>
</tr>
<tr>
<td>LIA 101: Student Success in The College of Liberal Arts and Sciences</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHM 113: General Chemistry I (SQ)</td>
<td>4</td>
<td>C</td>
<td>• Students transferring General Statistics (STP 226 or PSY 230) will fulfill STP 231 requirement</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td>• Select your career interest area and play me3@ASU</td>
<td></td>
</tr>
</tbody>
</table>

**Term hours subtotal:** 15

<table>
<thead>
<tr>
<th>Term 2 15 - 32 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 182: General Biology II (SG)</td>
<td>4</td>
<td>C</td>
<td>• Join a student organization</td>
<td></td>
</tr>
<tr>
<td>ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition</td>
<td>3</td>
<td>C</td>
<td>• Create a resume &amp; Handshake account with the Career &amp; Professional Development Center</td>
<td></td>
</tr>
<tr>
<td>CHM 116: General Chemistry II (SQ)</td>
<td>4</td>
<td>C</td>
<td>• Explore Research Opportunities</td>
<td></td>
</tr>
<tr>
<td>Social-Behavioral Sciences (SB) AND Global Awareness (G)</td>
<td>3</td>
<td></td>
<td>• Attend a Pre-Health 101 Session</td>
<td></td>
</tr>
<tr>
<td>Complete ENG 101 OR ENG 105 OR ENG 107 course(s).</td>
<td></td>
<td></td>
<td>• Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.)</td>
<td></td>
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</tbody>
</table>

**Term hours subtotal:** 17

<table>
<thead>
<tr>
<th>Term 3 32 - 48 Credit Hours</th>
<th>Critical course signified by</th>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 340: General Genetics</td>
<td>4</td>
<td>C</td>
<td>• Pre-health students should take CHM 233 and CHM 237 instead of the elective in this term. See pre-health website for more information.</td>
<td></td>
</tr>
<tr>
<td>BIO 311: Biology and Society OR HPS 340: Biology and Society</td>
<td>3</td>
<td>C</td>
<td>• If CHM 233 and 237 are taken, then CHM 234 and 238 must be taken the following semester</td>
<td></td>
</tr>
<tr>
<td>Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)</td>
<td>3</td>
<td></td>
<td>• It is not recommended to take more than two lab courses in a term.</td>
<td></td>
</tr>
<tr>
<td>Complete 2 courses: Elective</td>
<td>6</td>
<td></td>
<td>• BIO 311 or HPS 340 will fulfill the upper-division Science and Society requirement for The College</td>
<td></td>
</tr>
<tr>
<td>Complete First-Year Composition requirement.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete Mathematics (MA) requirement.</td>
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</tbody>
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**Term hours subtotal:** 16
**Term 4 48 - 63 Credit Hours**  
Critical course signified by 🟠  
<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>C</td>
<td>Pre-health students should take CHM 234 and CHM 238 instead of the elective in this term. See pre-health website for more information.</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>If CHM 233 and 237 are taken, then CHM 234 and 238 must be taken the following semester</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Explore or pursue internship opportunities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meet with the Career &amp; Professional Development Center to learn how to develop professional skills</td>
</tr>
</tbody>
</table>

**Term 5 63 - 78 Credit Hours**  
Necessary course signified by ★  
<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>C</td>
<td>Pre-health students should take PHY 111 and 113 instead of an elective this term. See the pre-health website for more information</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>Meet with your advisor to discuss ways to maximize your remaining time at ASU (i.e. pre-health; 4+1 Masters Programs; study abroad)</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>Some upper-division Science in Contemporary Society Interface courses require lower-division prerequisites which may be taken as electives</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Explore graduate school or full-time career opportunities</td>
</tr>
</tbody>
</table>

**Term 6 78 - 93 Credit Hours**  
Necessary course signified by ★  
<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>C</td>
<td>Pre-health students should take PHY 112 and 114 instead of electives this term. See the pre-health website for more information</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>Research employment opportunities or graduate school programs</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).</td>
</tr>
</tbody>
</table>

**Term 7 93 - 108 Credit Hours**  
Necessary course signified by ★  
<table>
<thead>
<tr>
<th>Hours</th>
<th>Minimum Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>C</td>
<td>Students who complete less than 3 hours of BIO 484 or BIO 492 or BIO 495 should plan to complete additional elective hours to reach the minimum 120 total hours required for this degree. BIO 484 or BIO 492 or BIO 495 requires the completion of an individualized</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td></td>
</tr>
</tbody>
</table>
**Science in Contemporary Society Courses**

- AFR 383: Blacks in Science, Medicine and Public Health
- ASB 353: Death and Dying in Cross-Cultural Perspective ((HU or SB) & G)
- BIO 302: Cancer--Mother of All Diseases (L)
- BIO 304: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)
- BIO 317: History of Science II (HU & H) or HPS 323: History of Science II (HU & H)
- BIO 322: Conservation of Biodiversity
- BIO 323: Ecosystem Restoration and Management
- BIO 412: Conservation in Practice or SOS 412: Conservation in Practice
- WST 340: Gender, Science, and Technology (SB)
- WST 360: Women as Healers (SB & G)

**Major Biological Sciences Elective Courses**

- BIO OR HPS OR MBB OR MIC 3** Elective
- BIO OR HPS OR MBB OR MIC 4** Elective
- BCH 361: Advanced Principles of Biochemistry

**Additional Major Core Elective Courses**

- AFR 383: Blacks in Science, Medicine and Public Health
- ASB 353: Death and Dying in Cross-Cultural Perspective ((HU or SB) & G)
- ASB 357: Society, Drugs and Health (SB & G)
- BIO 302: Cancer--Mother of All Diseases (L)
- BIO 304: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)
- BIO 312: Bioethics (HU) or PHI 320: Bioethics (HU)
- BIO 316: History of Biology: Conflicts and Controversies (H) or HPS 330: History of Biology: Conflicts and Controversies (H)
- BIO 322: Conservation of Biodiversity
- BIO 323: Ecosystem Restoration and Management
- BIO 324: Environmental Ethics (HU) or PHI 310: Environmental Ethics (HU)
- BIO 412: Conservation in Practice or SOS 412: Conservation in Practice

**Term 8 108 - 120 Credit Hours**

- **Necessary course signified by ★**
- ★ BIO 414: Research Colloquium in Biology and Society II (L) 1 C
- Complete 2 courses:
  - Upper Division Major Biological Sciences Elective 6 C
  - Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) 3
  - Upper Division Elective 2

**Term hours subtotal:** 12

- **Term 8 108 - 120 Credit Hours**

- **Necessary course signified by ★**
  - ★ BIO 414: Research Colloquium in Biology and Society II (L) 1 C
  - Complete 2 courses:
    - Upper Division Major Biological Sciences Elective 6 C
    - Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) 3
    - Upper Division Elective 2

**Term hours subtotal:** 12

- **Term 8 108 - 120 Credit Hours**

- **Necessary course signified by ★**
  - ★ BIO 414: Research Colloquium in Biology and Society II (L) 1 C
  - Complete 2 courses:
    - Upper Division Major Biological Sciences Elective 6 C
    - Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) 3
    - Upper Division Elective 2

**Term hours subtotal:** 12

- **Term 8 108 - 120 Credit Hours**

- **Necessary course signified by ★**
  - ★ BIO 414: Research Colloquium in Biology and Society II (L) 1 C
  - Complete 2 courses:
    - Upper Division Major Biological Sciences Elective 6 C
    - Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB) 3
    - Upper Division Elective 2

**Term hours subtotal:** 12
Notes:

- 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.
• Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

**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.

**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  
**Total College Residency Hrs:** 12 minimum  

**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)