













## 2024 - 2025 Major Map



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


School/College: The College of Liberal Arts and Sciences  
LABSCSBS

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 181: General Biology I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>LIA 101, ASU 101, or other First-Year Seminar required of all first-year students</li> <li>Students transferring General Statistics (STP 226 or PSY 230) will fulfill STP 231 requirement</li> <li>Select your <b>career interest area</b> and play <b>me3@ASU</b></li> </ul>
 LIA 101: Student Success in The College of Liberal Arts and Sciences	1		
CHM 113: General Chemistry I (SCIT OR SQ)	4	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
STP 231: Statistics for Life Science (QTRS OR CS)	3	C	
Term hours subtotal:	15		
Term 2 15 - 32 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SCIT OR SG)	4	C	<ul style="list-style-type: none"> <li>Join a <b>student organization</b></li> <li>Create a resume &amp; <b>Handshake</b> account with the <b>Career &amp; Professional Development Center</b></li> <li>Explore <b>Research Opportunities</b></li> <li>Attend a <b>Pre-Health 101 Session</b></li> <li>Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.)</li> <li>Students transferring Calculus (MAT 270 or MAT 210) will fulfill MAT 251 requirement</li> </ul>
CHM 116: General Chemistry II (SCIT OR SQ)	4	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
MAT 251: Calculus for Life Sciences (MATH OR MA)	3	C	
Social and Behavioral Sciences (SOBE)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	17		
Term 3 32 - 48 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 BIO 340: General Genetics	4	C	<ul style="list-style-type: none"> <li>Some pre-health students may need CHM 233 and CHM 237 instead of the elective in this term. See pre-health <b>website</b> for more information.</li> <li>If CHM 233 and 237 are taken, then CHM 234 and 238 must be taken the following semester.</li> <li>It is not recommended to take more than two lab courses in a term.</li> <li>BIO 311 or HPS 340 will fulfill the upper-division Science and Society requirement for The College.</li> <li>Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.)</li> </ul>
BIO 311: Biology and Society OR HPS 340: Biology and Society	3	C	
Humanities, Arts and Design (HUAD)	3		
Complete 2 courses: Elective	6		
 Complete First-Year Composition requirement.			
 Complete Mathematics (MATH) requirement.			
Term hours subtotal:	16		



- Attend a [Study Abroad 101 Session](#).
- Explore [minors and certificates](#).

Term 4 48 - 63 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 345: Evolution	3	C	<ul style="list-style-type: none"> <li>• Some pre-health students may need CHM 234 and CHM 238 instead of electives in this term. See the pre-health <a href="#">website</a> for more information.</li> <li>• If CHM 233 and 237 are taken, then CHM 234 and 238 must be taken the following semester.</li> <li>• Explore or pursue <a href="#">internship opportunities</a>.</li> <li>• Meet with the <a href="#">Career &amp; Professional Development Center</a> to learn how to develop professional skills.</li> </ul>
Governance and Civic Engagement (CIVI)	3		
Humanities, Arts and Design (HUAD)	3		
Complete 2 courses:	6		
Elective			
Term hours subtotal:	15		

Term 5 63 - 78 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 Upper Division History of Science Course	3	C	<ul style="list-style-type: none"> <li>• Some pre-health students may need PHY 111 and 113 instead of an elective this term. See the pre-health <a href="#">website</a> for more information.</li> <li>• Students are encouraged to explore research options through BIO 307, 314, 414, plus 484, 492, or 495.</li> <li>• Meet with your <a href="#">advisor</a> to discuss ways to maximize your remaining time at ASU (i.e. pre-health; Accelerated Masters Programs; <a href="#">study abroad</a>).</li> <li>• Explore graduate school or full-time <a href="#">career opportunities</a>.</li> </ul>
Upper Division Major Biological Sciences Elective	3	C	
Science and Society Elective	3	C	
Sustainability (SUST)	3		
Upper Division Elective	3		
Term hours subtotal:	15		

Term 6 78 - 93 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 Upper Division Bioethics Course	3	C	<ul style="list-style-type: none"> <li>• Some pre-health students may need PHY 112 and 114 instead of electives this term. See the pre-health <a href="#">website</a> for more information.</li> <li>• Students are encouraged to explore research options through BIO 307, 314, 414, plus 484, 492, or 495.</li> </ul>
Upper Division Major Biological Sciences Elective	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Upper Division Elective	3		
Elective	3		
Term hours subtotal:	15		

Term 7 93 - 106 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 Upper Division Environmental Ethics, Conservation and Society Course	3	C	<ul style="list-style-type: none"> <li>• Meet with your <a href="#">advisor</a> to verify remaining degree requirements have been met prior to Term 8.</li> <li>• Explore or apply for <a href="#">full-time career opportunities or graduate school</a>.</li> </ul>
 Upper Division Philosophy of Science Course	3	C	
Complete 2 courses:	7		
Elective			
Term hours subtotal:	13		

Term 8 106 - 120 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 Upper Division Science in Global Society Course	3	C	<ul style="list-style-type: none"> <li>• Continue to apply for <a href="#">full-time career opportunities or graduate school</a>.</li> </ul>
Complete 2 courses:	6	C	
Upper Division Major Biological Sciences Elective			

American Institutions (AMIT)	3
Upper Division Elective	2
Term hours subtotal:	14

- All students pursuing a BS or BSP degree in The College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at <https://thecollege.asu.edu/resources/science-society>. At least one of the two courses must be upper-division and students must earn a C or better in the courses. Both Science and Society courses (i.e., all six credits) may count towards any major, minor, related fields, and ASU General Studies requirements.

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

Science in Global Society Courses	Major Biological Sciences Elective Courses	Philosophy of Science Courses
BIO 302: Cancer--Mother of All Diseases (L)	BCH 361: Advanced Principles of Biochemistry	BIO 452: Philosophy of Biology and Medicine or HPS 452: Philosophy of Biology and Medicine
BIO 304: Plants and Civilization or ENV 302: Plants and Civilization	BIO OR HPS OR MBB OR MIC 3** Elective	HPS 314: Philosophy of Science (HUAD OR HU) or PHI 314: Philosophy of Science (HUAD OR HU)
MIC 314: HIV/AIDS: Science, Behavior, and Society or SSH 314: HIV/AIDS: Science, Behavior, and Society	BIO OR HPS OR MBB OR MIC 4** Elective	
Bioethics Courses	Environmental Ethics, Conservation and Society Courses	History of Science Courses
BIO 312: Bioethics (HUAD OR HU)	BIO 322: Conservation of Biodiversity	BIO 316: History of Biology: Conflicts and Controversies (HUAD OR H) or HPS 330: History of Biology: Conflicts and Controversies (HUAD OR H)
BIO 416: Biomedical Research Ethics (L) or HPS 410: Biomedical Research Ethics (L)	BIO 324: Environmental Ethics (SUST OR HU)	BIO 317: History of Science II (HUAD OR HU & H) or HPS 323: History of Science II (HUAD OR HU & H)
	BIO 412: Conservation in Practice	BIO 318: History of Medicine (HUAD OR HU & H) or HPS 331: History of Medicine (HUAD OR HU & H)
		HPS 322: History of Science I (HU & H)

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

#### Notes:

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 designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.