













## 2024 - 2025 Major Map



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

School/College: [The College of Liberal Arts and Sciences](#)  
LABSCSBS



Term 1 - A 0 - 8 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ASU 101-LA: The ASU Experience	1		<ul style="list-style-type: none"> <li>ASU 101 or college-specific equivalent</li> <li>First-Year Seminar required of all first-year students</li> </ul>
 BIO 181: General Biology I (SCIT OR SQ)	4	C	
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
Term hours subtotal:	8		
Term 1 - B 8 - 15 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 182: General Biology II (SCIT OR SG)	4	C	<ul style="list-style-type: none"> <li>View ASU Online first-year student registration information <a href="#">here</a>.</li> <li>Create a resume and <a href="#">Handshake account</a> with the Career &amp; Professional Development Center to explore research or internship opportunities.</li> <li>Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.)</li> <li>Join a <a href="#">student organization</a>.</li> </ul>
ENG 101 or ENG 102: First-Year Composition OR			
ENG 105: Advanced First-Year Composition OR	3	C	
ENG 107 or ENG 108: First-Year Composition			
Term hours subtotal:	7		
Term 2 - A 15 - 22 Credit Hours	Hours	Minimum Grade	Notes
CHM 113: General Chemistry I (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>Select your <a href="#">career interest area</a> and play <a href="#">me3@ASU</a>.</li> <li>Students transferring General Statistics (STP 226 or PSY 230) will fulfill STP 231 requirement.</li> </ul>
STP 231: Statistics for Life Science (QTRS OR CS)	3	C	
Term hours subtotal:	7		
Term 2 - B 22 - 29 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
CHM 116: General Chemistry II (SCIT OR SQ)	4	C	<ul style="list-style-type: none"> <li>If interested in health-related professional programs, research the <a href="#">timeline</a> for admissions preparation and <a href="#">general admission requirements</a>.</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>
MAT 251: Calculus for Life Sciences (MATH OR MA)	3	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	7		

Term 3 - A 29 - 36 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 340: General Genetics	4	C	<ul style="list-style-type: none"> <li>It is not recommended to take more than two lab courses in a term.</li> <li>Review the <a href="#">Career Guide for ASU Online students</a> to learn about available career planning resources.</li> </ul>
Social and Behavioral Sciences (SOBE)	3		
Term hours subtotal:	7		



Term 3 - B 36 - 42 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 311: Biology and Society OR HPS 340: Biology and Society	3	C	<ul style="list-style-type: none"> <li>Meet with the <a href="#">Career &amp; Professional Development Center</a> to learn how to develop professional skills</li> </ul>
Humanities, Arts and Design (HUAD)	3		
 Complete First-Year Composition requirement.			
 Complete Mathematics (MATH) requirement.			
Term hours subtotal:	6		

Term 4 - A 42 - 48 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 BIO 345: Evolution	3	C	<ul style="list-style-type: none"> <li>Students are encouraged to explore research options through BIO 307, 314, 414, plus 484, 492, or 495.</li> <li>Develop your <a href="#">professional online presence</a>.</li> </ul>
Elective	3		
Term hours subtotal:	6		

Term 4 - B 48 - 54 Credit Hours	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HUAD)	3		
Elective	3		
Term hours subtotal:	6		

Term 5 - A 54 - 60 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>If interested in health-related professional programs, use <a href="#">ASU's Health Professions Advising</a> to prepare for application.</li> <li>Meet with your advisor 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 Elective	3		
Term hours subtotal:	6		

Term 5 - B 60 - 66 Credit Hours	Hours	Minimum Grade	Notes
Science and Society Elective	3	C	<ul style="list-style-type: none"> <li><a href="#">Network</a> in your career interest area.</li> </ul>
Sustainability (SUST)	3		
Term hours subtotal:	6		

Term 6 - A 66 - 75 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>Work with your academic advisor to align your additional major requirement and major elective courses with your career aspirations</li> <li>Use <a href="#">Handshake</a> to research employment opportunities</li> </ul>
Global Communities, Societies and Individuals (GCSI)	3		
Governance and Civic Engagement (CIVI)	3		
Term hours subtotal:	9		

Term 6 - B 75 - 81 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division History of Science Course	3	C	
American Institutions (AMIT)	3		
Term hours subtotal:	6		
Term 7 - A 81 - 84 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Major Biological Sciences Elective	3	C	
Term hours subtotal:	3		<ul style="list-style-type: none"> <li>Students are encouraged to explore research options through BIO 307, 314, 414, plus 484, 492, or 495.</li> <li>Meet with your advisor to verify remaining degree requirements have been met prior to Term 8</li> <li>Explore or apply for full-time career opportunities or graduate school</li> </ul>
Term 7 - B 84 - 93 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Philosophy of Science Course	3	C	
Elective	3		
Upper Division Elective	3		
Term hours subtotal:	9		
Term 8 - A 93 - 101 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Major Biological Sciences Elective	3	C	
Upper Division Elective	2		
Elective	3		
Term hours subtotal:	8		<ul style="list-style-type: none"> <li>Explore other resources available through ASU's Career and Professional Development Center</li> </ul>
Term 8 - B 101 - 107 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Major Biological Sciences Elective	3	C	
Elective	3		
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>Gather professional references</li> </ul>
Term 9 - A 107 - 114 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Major Biological Sciences Elective	3	C	
Elective	4		
Term hours subtotal:	7		
Term 9 - B 114 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Environmental Ethics, Conservation and Society Course	3	C	
Elective	3		
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>Continue to apply for full-time career opportunities or graduate school</li> </ul>

- 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)

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

- **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.