2023 - 2024 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 Critical course signified by	Hours	Minimum Grade	Notes	
ASU 101-LA: The ASU Experience 1		• ASU 101 or college-specific equivalent		
◆ BIO 181: General Biology I (SQ)	4	С	First-Year Seminar required of all first-year students	
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	С		
Term hours subtotal:	8			
Term 1 - B 8 - 15 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
1 BIO 182: General Biology II (SG)	4	С	• View ASU Online first-year student	
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	С	registration information here. • Create a resume and Handshake account with the Career & Professional	
			Development Center to explore research of internship opportunities. • Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing etc.) • Join a student organization.	
Term 2 - A 15 - 22 Credit Hours	Hours	Minimum Grade	Notes	
CHM 113: General Chemistry I (SQ)	4	C	• Select your career interest area and play	
STP 231: Statistics for Life Science (CS)	3	С	me3@ASU.	
Term hours subtotal:	7		 Students transferring General Statistics (STP 226 or PSY 230) will fulfill STP 231 requirement. 	
Term 2 - B 22 - 29 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
CHM 116: General Chemistry II (SQ)	4	С	• If interested in health-related professional	
MAT 251: Calculus for Life Sciences (MA)	3	С	programs, research the timeline for	
• Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			admissions preparation and general	
Term hours subtotal:	7		 admission requirements. Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.) Students transferring Calculus (MAT 270 	

or MAT 210) will fulfill MAT 251 $\,$

requirement.

Term 3 - A 29 - 36 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
BIO 340: General Genetics	4	С	• Due to lower-division prerequisites,
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		pre-health students are encouraged to choose upper division General Studies (Ht or SB) and The College Science and Society courses. It is not recommended to take more than two lab courses in a term. Review the Career Guide for ASU Online students to learn about available career planning resources.
Term hours subtotal:	7		
Ferm 3 - B 36 - 42 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes
BIO 311: Biology and Society OR HPS 340: Biology and Society	3	С	
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		 Meet with the Career & Professional Development Center to learn how to
① Complete First-Year Composition requirement.			develop professional skills
Complete Mathematics (MA) requirement.			
Term hours subtotal:	6		
Ferm 4 - A 42 - 48 Credit Hours Critical course signified by Φ	Hours	Minimum Grade	Notes
◆ BIO 345: Evolution	3	С	 Students are encouraged to explore
Elective	3		research options through BIO 307, 314,
Term hours subtotal:	6		414, plus 484, 492, or 495.Develop your professional online presence.
Γerm 4 - B 48 - 54 Credit Hours	Hours	Minimum Grade	Notes
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Elective	3		
Term hours subtotal	: 6		
Ferm 5 - A 54 - 60 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🐈 Upper Division Science in Global Society Course	3	С	• If interested in health-related professiona
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		programs, use ASU's Health Professions Advising to prepare for application.
Term hours subtotal:	6		 Meet with your advisor to discuss ways to maximize your remaining time at ASU (i.e. pre-health; 4+1 Masters Programs; study abroad). Explore graduate school or full-time career opportunities.
Term 5 - B 60 - 66 Credit Hours	Hours	Minimum Grade	Notes
Science and Society Elective	3	С	• Network in your career interest area.
Social-Behavioral Sciences (SB)	3		
Term hours subtotal	: 6		
Term 6 - A 66 - 75 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes

typer Division Bioethics Course	3	С
Literacy and Critical Inquiry (L)	3	
Elective	3	

Term hours subtotal: 9

- Work with your academic advisor to align your additional major requirement and major elective courses with your career aspirations
- Use Handshake to research employment opportunities

Term 6 - B 75 - 81 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
tupper Division History of Science Course	3	С	
Upper Division Literacy and Critical Inquiry (L)	3		
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			

Term hours subtotal: 6

Term 7 - A 81 - 87 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🜟 Upper Division Major Biological Sciences Elective	3	С	• Students are encouraged to explore
Elective	3		research options through BIO 307, 314,
Term hours subtotal:	6		 414, plus 484, 492, or 495. Meet with your advisor to verify remaining degree requirements have been met prior to Term 8 Explore or apply for full-time career opportunities or graduate school

Term 7 - B 87 - 93 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
Lipper Division Philosophy of Science Course	3	C	
Elective	3		
Term hours subtotal:	6		

Term 8 - A 93 - 101 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🜟 Upper Division Major Biological Sciences Elective	3	С	• Explore other resources available through
Upper Division Elective	2		ASU's Career and Professional
Elective	3		Development Center
Term hours subtotal:	8		

Term nours subtotal.	0		
Term 8 - B 101 - 107 Credit Hours Necessary course signified by ☆	Hours	Minimum Grade	Notes
🜟 Upper Division Major Biological Sciences Elective	3	С	Gather professional references
Elective	3		•
Term hours subtotal:	6		

Term nours subtotal.	O		
Term 9 - A 107 - 114 Credit Hours Necessary course signified by ☆	Hours	Minimum Grade	Notes
🜟 Upper Division Major Biological Sciences Elective	3	С	
Elective	4		

Term hours subtotal: 7

Term nours suototal	. ,		
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	• Continue to apply for full-time career opportunities or graduate school

Elective 3

Term hours subtotal:

6

• 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)

Bioethics Courses	History of Science Courses
BIO 312: Bioethics (HU)	BIO 316: History of Biology: Conflicts and
BIO 416: Biomedical Research Ethics (L) or	Controversies (H) or HPS 330: History of Biology: Conflicts and Controversies (H)
HPS 410: Biomedical Research Ethics (L)	
	BIO 318: History of Medicine (HU & H) or HPS 331: History of Medicine (HU & H)
	HPS 322: History of Science I (HU & H)
	HPS 323: History of Science II (HU & H)
Environmental Ethics, Conservation and	Science in Global Society Courses
Society Courses	BIO 304: Plants and Civilization (L) or ENV
BIO 322: Conservation of Biodiversity	302: Plants and Civilization (L)
BIO 324: Environmental Ethics (HU)	
	BIO 312: Bioethics (HU) BIO 416: Biomedical Research Ethics (L) or HPS 410: Biomedical Research Ethics (L) Environmental Ethics, Conservation and Society Courses BIO 322: Conservation of Biodiversity

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.

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)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2023 - 2024 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.