2022 - 2023 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
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	first-year students
Term hours subtotal:	8		
Term 1 - B 8 - 15 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes
BIO 182: General Biology II (SG)	4	С	• Winne ASU Online First men stadaut

BIO 182: General Biology II (SG)		4	С
ENG 101 or ENG 102: First-Year Composit	tion OR		
ENG 105: Advanced First-Year Composition	n OR	3	С
ENG 107 or ENG 108: First-Year Composit	tion		
	Term hours subtotal:	7	

- View ASU Online first-year student registration information here.
- Create a resume and Handshake account with the Career & Professional Development Center to explore research or 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	
CHM 113: General Chemistry I (SQ)		4	С	• Salaat aa
STP 231: Statistics for Life Science (CS)		3	С	 Select your me3@ASU
	Term hours subtotal:	7		• Students tr

 Select your career 	interest	area	and	play
me3@ASU.				

Notes

transferring General Statistics (STP 226 or PSY 230) will fulfill STP 231 requirement.

Notes

Term 2 - B 22 - 29 Credit Hours Critical course signified by �	Hours	Minimum Grade
CHM 116: General Chemistry II (SQ)	4	С
MAT 251: Calculus for Life Sciences (MA)	3	С
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).		
Term hours subtotal:	7	

admission requirements. • Explore extracurriculars (i.e. service learning, community service, internships, research, student involvement, shadowing, etc.)

• If interested in health-related professional programs, research the timeline for admissions preparation and general

• Students transferring Calculus (MAT 270 or MAT 210) will fulfill MAT 251 requirement.

Cerm 3 - A 29 - 35 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
BIO 311: Biology and Society OR HPS 340: Biology and Society	3	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 (H	
Term hours subtotal:	6		 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. 	
Cerm 3 - B 35 - 42 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
BIO 340: General Genetics	4	С	 Meet with the Career & Professional 	
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		Development Center to learn how to develop professional skills	
Complete First-Year Composition requirement.				
Complete Mathematics (MA) requirement.				
Term hours subtotal:	7			
Cerm 4 - A 42 - 48 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	
BIO 345: Evolution	3	С	 Develop your professional online 	
Elective	3		presence.	
Term hours subtotal:	б			
Cerm 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			
Cerm 5 - A 54 - 60 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
Upper Division Science in Contemporary Society Interface Course	3	С	• If interested in health-related profession	
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		programs, use ASU's Health Profession Advising to prepare for application.	
Term hours subtotal:	6		 Meet with your advisor to discuss w to maximize your remaining time at (i.e. pre-health; 4+1 Masters Progra- study abroad). Explore graduate school or full-time career opportunities. 	
Cerm 5 - B 60 - 66 Credit Hours	Hours	Minimum Grade	Notes	
Science and Society Elective	3	С	C Natural in an	
Social-Behavioral Sciences (SB)			• Network in your career interest area.	

Term hours subtotal: 6 Term 6 - A 66 - 73 Credit Hours Necessary course signified by Minimum Notes Hours Grade 🜟 BIO 307: Research Colloquium: Identifying a Research Question 1 С 3 Literacy and Critical Inquiry (L)

• Work with your academic advisor to align your additional major requirement and

Elective Term hours subtotal:	3		major elective courses with your career aspirationsUse Handshake to research employment opportunities
rm 6 - B 73 - 80 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes
BIO 314: Research Colloquium in Biology and Society I	1	С	
Upper Division Additional Major Core Elective Courses	3	С	
Upper Division Literacy and Critical Inquiry (L)	3		

7

Hours

Minimum

Grade

Notes

Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

Term 7 - A 80 - 87 Credit Hours Necessary course signified by

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Term hours subtotal:

🜟 BIO 484: Internship OR BIO 495: Undergraduate Research	1	С	• Meet with your advisor to verify		
to Upper Division Major Biological Sciences Elective	3	С	remaining degree requirements have bee		
Elective	3		met prior to Term 8 • Explore or apply for full-time career		
Term hours subtotal:	7		opportunities or graduate school		
'erm 7 - B 87 - 93 Credit Hours Necessary course signified by 🔀	Hours	Minimum Grade	Notes		
🔶 Upper Division Ethics Interface Course	3	С			
Elective	3				
Term hours subtotal:	6				
Cerm 8 - A 93 - 100 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes		
🔶 Upper Division Major Biological Sciences Elective	3	С	• Explore other resources available throug		
Upper Division Elective	1		ASU's Career and Professional		
Elective	3		Development Center		
Term hours subtotal:	7				
erm 8 - B 100 - 107 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes		
🔶 Upper Division Major Biological Sciences Elective	3	С	Gather professional references		
BIO 414: Research Colloquium in Biology and Society II	1	С			
Elective	3				
Term hours subtotal:	7				
Cerm 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				
erm 9 - B 114 - 120 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes		
Upper Division History and Philosophy of Science Interface Course	3	С	• Continue to apply for full-time career		
Elective	3		opportunities of graduate school		
Elective Term hours subtotal:	3		opportunities or graduate school		

• 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.

Science in Contemporary Society Interface	Major Biological Sciences Elective Courses	Additional Major Core Elective Courses		
Courses	BCH 361: Advanced Principles of	ASB 353: Death and Dying in		
ASB 353: Death and Dying in Cross-Cultural Perspective ((HU or SB) &	Biochemistry	Cross-Cultural Perspective ((HU or SB) & G)		
G)	BIO OR HPS 3** Elective	ASB 357: Society, Drugs and Health (SB &		
ASM 345: Disease and Human Evolution	BIO OR HPS 4** Elective	G)		
BIO 304: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)		ASM 345: Disease and Human Evolution		
BIO 317: History of Science II (HU & H) or		BIO 304: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)		
HPS 323: History of Science II (HU & H) BIO 322: Conservation of Biodiversity		BIO 312: Bioethics (HU) or PHI 320: Bioethics (HU)		
BIO 412: Conservation in Practice or SOS 412: Conservation in Practice		BIO 316: History of Biology: Conflicts and Controversies (H) or HPS 330: History of Biology: Conflicts and Controversies (H)		
MIC 314: HIV/AIDS: Science, Behavior, and Society or SSH 314: HIV/AIDS: Science, Behavior, and Society		BIO 322: Conservation of Biodiversity		
		BIO 324: Environmental Ethics (HU) or PHI 310: Environmental Ethics (HU)		
		BIO 412: Conservation in Practice or SOS 412: Conservation in Practice		
		BIO 416: Biomedical Research Ethics (L) or HPS 410: Biomedical Research Ethics (L)		
		HPS 314: Philosophy of Science (HU) or PHI 314: Philosophy of Science (HU)		
		HPS 323: History of Science II (HU & H) or BIO 317: History of Science II (HU & H)		
		HPS 331: History of Medicine (HU & H) or BIO 318: History of Medicine (HU & H)		
		MIC 314: HIV/AIDS: Science, Behavior, and Society or SSH 314: HIV/AIDS: Science, Behavior, and Society		
History and Philosophy of Science Interface	Ethics Interface Courses			
Courses ASB 357: Society, Drugs and Health (SB &	BIO 312: Bioethics (HU) or PHI 320: Bioethics (HU)			
G)	BIO 324: Environmental Ethics (HU) or PHI			

BIO 316: History of Biology: Conflicts and Controversies (H) or HPS 330: History of Biology: Conflicts and Controversies (H)

HPS 314: Philosophy of Science (HU) or PHI 314: Philosophy of Science (HU) BIO 324: Environmental Ethics (HU) or PHI 310: Environmental Ethics (HU)

BIO 416: Biomedical Research Ethics (L) or HPS 410: Biomedical Research Ethics (L) HPS 323: History of Science II (HU & H) or BIO 317: History of Science II (HU & H)

HPS 331: History of Medicine (HU & H) or BIO 318: History of Medicine (HU & H)

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 2022 - 2023 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.