2023 - 2024 Major Map

Biological Sciences (Biology and Society), BS

School/College: The College of Liberal Arts and Sciences

LABSCSBS

erm 1 0 - 15 Credit Hours Critical course signified by 💠	Hours	Minimum Grade	Notes	
BIO 181: General Biology I (SQ)	4	С	 LIA 101, ASU 101, or other First-Yea Seminar required of all first-year stude Students transferring General Statistics 	
LIA 101: Student Success in The College of Liberal Arts and Sciences	1			
CHM 113: General Chemistry I (SQ)	4	С	(STP 226 or PSY 230) will fulfill STP	
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	231 requirementSelect your career interest area and pla me3@ASU	
STP 231: Statistics for Life Science (CS)	3	С		
Term hours subtotal:	15			
rm 2 15 - 32 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
BIO 182: General Biology II (SG)	4	С	Join a student organization	
CHM 116: General Chemistry II (SQ)	4	С	 Create a resume & Handshake account with the Career & Professional Development Center Explore Research Opportunities 	
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		
MAT 251: Calculus for Life Sciences (MA)	3	С	 Attend a Pre-Health 101 Session Explore extracurriculars (i.e. service learning, community service, internship 	
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3			
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			research, student involvement, shadow etc.) • Students transferring Calculus (MAT 2 or MAT 210) will fulfill MAT 251 requirement	
Term hours subtotal:	17			
rm 3 32 - 48 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
BIO 340: General Genetics	4	С	• Pre-health students should take CHM 23	
BIO 311: Biology and Society OR HPS 340: Biology and Society	3	С	and CHM 237 instead of the elective in	
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		this term. See pre-health website for moinformation. • If CHM 233 and 237 are taken, then CH 234 and 238 must be taken the followin semester.	
Complete 2 courses: Elective	6			
Complete First-Year Composition requirement.			• It is not recommended to take more that	
Complete Mathematics (MA) requirement.			two lab courses in a term. • BIO 311 or HPS 340 will fulfill the	
Term hours subtotal:	16		 BIO 311 of TIFS 340 will fulfill the upper-division Science and Society requirement for The College. Explore extracurriculars (i.e. service learning, community service, internship 	

research, student involvement, shadowing,

etc.)

- Attend a Study Abroad 101 Session.
- Explore minors and certificates.

			Explore minors and certificates.	
Ferm 4 48 - 63 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes	
DIO 345: Evolution	3	C	• Pre-health students should take CHM 234	
Literacy and Critical Inquiry (L)	3		 and CHM 238 instead of electives in this term. See the pre-health website for more information. If CHM 233 and 237 are taken, then CHM 	
Social-Behavioral Sciences (SB)	3			
Complete 2 courses: Elective	6			
Term hours subtotal:	15		234 and 238 must be taken the following semester.	
			 Explore or pursue internship opportunitie Meet with the Career & Professional Development Center to learn how to develop professional skills. 	
Ferm 5 63 - 78 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
tpper Division History of Science Course	3	C	Pre-health students should take PHY 111	
Upper Division Major Biological Sciences Elective	3	С	and 113 instead of an elective this term.	
Science and Society Elective	3	С	See the pre-health website for more information. • Students are encouraged to explore research options through BIO 307, 314, 414, plus 484, 492, or 495.	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3			
Elective	3			
			 maximize your remaining time at ASU (i.e. pre-health; 4+1 Masters Programs; study abroad). Explore graduate school or full-time car opportunities. 	
Term 6 78 - 93 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
🜟 Upper Division Bioethics Course	3	С	Pre-health students should take PHY 1	
Upper Division Major Biological Sciences Elective	3	C	 Pre-health students should take PHY I and 114 instead of electives this term. See the pre-health website for more information. Students are encouraged to explore research options through BIO 307, 314 	
Upper Division Literacy and Critical Inquiry (L)	3			
Complete 2 courses: Elective	6			
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			414, plus 484, 492, or 495.	
Term hours subtotal:	15			
Cerm 7 93 - 106 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes	
Upper Division Environmental Ethics, Conservation and Society Course	3	C	 Meet with your advisor to verify remaining degree requirements have be met prior to Term 8. Explore or apply for full-time career opportunities or graduate school. 	
ద Upper Division Philosophy of Science Course	3	С		
Complete 2 courses: Elective	7			
Term hours subtotal:	13			

Minimum

Grade

 \mathbf{C}

C

Hours

3

6

Term 8 106 - 120 Credit Hours Necessary course signified by

typer Division Science in Global Society Course

Upper Division Major Biological Sciences Elective

Complete 2 courses:

Page 2

Notes

• Continue to apply for full-time career

opportunities or graduate school.

Upper Division Humanities, Arts and Design (Division Social-Behavioral Sciences (SB)	(HU) OR Upper	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: CancerMother of All Diseases (L)	BCH 361: Advanced Principles of Biochemistry	BIO 452: Philosophy of Biology and Medicine or HPS 452: Philosophy of	
BIO 304: Plants and Civilization (L) or ENV 302: Plants and Civilization (L)	BIO OR HPS OR MBB OR MIC 3** Elective	Biology and Medicine HPS 314: Philosophy of Science (HU) or	
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	PHI 314: Philosophy of Science (HU)	
Bioethics Courses	Environmental Ethics, Conservation and	History of Science Courses	
BIO 312: Bioethics (HU)	Society Courses	BIO 316: History of Biology: Conflicts an Controversies (H) or HPS 330: History of Biology: Conflicts and Controversies (H)	
BIO 416: Biomedical Research Ethics (L) or	BIO 322: Conservation of Biodiversity		
HPS 410: Biomedical Research Ethics (L) or	BIO 324: Environmental Ethics (HU)		
	BIO 412: Conservation in Practice	BIO 317: History of Science II (HU & H) HPS 323: History of Science II (HU & H)	
		BIO 318: History of Medicine (HU & H) of HPS 331: History of Medicine (HU & H)	
		HPS 322: History of Science I (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 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.