

2023 - 2024 Major Map

Biophysics, BS

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

Term 1 - A 0 - 7 Credit Hours	Hours	Minimum Grade	Notes
ASU 101-LA: The ASU Experience	1		<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. Select your Career Interest Communities and play me3@ASU.
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			
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		
Term hours subtotal:	7		
Term 1 - B 7 - 13 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ MAT 265: Calculus for Engineers I (MA)	3	C	<ul style="list-style-type: none"> View ASU Online first-year student registration information here.
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			
⚠ Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	6		
Term 2 - A 13 - 20 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ MAT 266: Calculus for Engineers II (MA)	3	C	<ul style="list-style-type: none"> Join a student club or professional organization.
BIO 181: General Biology I (SQ)	4	C	
Term hours subtotal:	7		
Term 2 - B 20 - 28 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ PHY 121: University Physics I: Mechanics (SQ) AND PHY 122: University Physics Laboratory I (SQ)	4	C	
BIO 182: General Biology II (SG)	4	C	
⚠ Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
⚠ Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	8		
Term 3 - A 28 - 35 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ CHM 113: General Chemistry I (SQ)	4	C	<ul style="list-style-type: none"> Review the Career Guide for ASU Online students to learn about available career planning resources.
⚠ MAT 267: Calculus for Engineers III (MA)	3	C	
Term hours subtotal:	7		
Term 3 - B 35 - 43 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ CHM 116: General Chemistry II (SQ)	4	C	

🚩 PHY 131: University Physics II: Electricity and Magnetism (SQ) AND PHY 132: University Physics Laboratory II (SQ)	4	C
🚩 Maintain 2.50 GPA in Critical Tracking Courses.		
Complete Mathematics (MA) requirement.		
Term hours subtotal:	8	

Term 4 - A 43 - 50 Credit Hours Critical course signified by 🚩	Hours	Minimum Grade	Notes
🚩 CHM 233: General Organic Chemistry I	3	C	• Explore an internship .
🚩 PHY 241: University Physics III AND PHY 202: Programming for Physicists	4	C	
Term hours subtotal:	7		

Term 4 - B 50 - 56 Credit Hours Critical course signified by 🚩	Hours	Minimum Grade	Notes
🚩 PHY 201: Mathematical Methods in Physics I (CS)	3	C	• Explore research fields within physics.
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
🚩 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	6		

Term 5 - A 56 - 65 Credit Hours	Hours	Minimum Grade	Notes
BIO 360: Animal Physiology OR BIO 353: Cell Biology	3	C	• Explore Research Experiences for Undergraduates (REU) opportunities.
Science and Society Elective	3	C	
Literacy and Critical Inquiry (L)	3		
Term hours subtotal:	9		

Term 5 - B 65 - 74 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ PHY 314: Quantum Physics I	3	C	
Upper Division Science and Society Elective	3	C	
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
Term hours subtotal:	9		

Term 6 - A 74 - 80 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ CHM 341: Elementary Physical Chemistry	3	C	• Use Handshake to research employment opportunities . • Start preparing for after graduation .
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Term hours subtotal:	6		

Term 6 - B 80 - 89 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ PHY 312: Mechanics and Electromagnetism	3	C	
Social-Behavioral Sciences (SB)	3		
Upper Division Elective	3		
⭐ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	9		

Term 7 - A 89 - 98 Credit Hours Necessary course signified by ⭐	Hours	Minimum Grade	Notes
⭐ PHY 371: Driving Forces in Biology	3	C	• Develop your professional online presence .
Upper Division Literacy and Critical Inquiry (L)	3		
Upper Division Elective	3		

Term hours subtotal: 9

Term 7 - B 98 - 107 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY 472: Advanced Biophysics Lab	3	C	
Complete 2 courses:			
Elective	6		
Term hours subtotal:	9		

Term 8 - A 107 - 113 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY 473: From Molecules to Cells	3	C	
Upper Division Elective	3		
Term hours subtotal:	6		

- Create a **resume**.
- Complete a virtual **practice interview**.

Term 8 - B 113 - 120 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses:			
Upper Division Elective	6		
Elective	1		
Term hours subtotal:	7		

- 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)

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.