
















2022 - 2023 Major Map

Biophysics, BS

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

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 270: Calculus with Analytic Geometry I (MA)	4	C	<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 area and play me3@ASU
BIO 181: General Biology I (SQ)	4	C	
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	C	
LIA 101: Student Success in The College of Liberal Arts and Sciences	1	C	
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	15		
Term 2 15 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 271: Calculus with Analytic Geometry II (MA)	4	C	<ul style="list-style-type: none"> PHY 121 and PHY 122 may be taken in place of PHY 150. Join a physics student organization.
 PHY 150: Physics I (SQ)	4	C	
BIO 182: General Biology II (SG)	4	C	
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	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	15		
Term 3 30 - 45 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 272: Calculus with Analytic Geometry III (MA)	4	C	<ul style="list-style-type: none"> PHY 131 and PHY 132 may be taken in place of PHY 151. CHM 113 may be taken in place of CHM 117 and CHM 111.
 PHY 151: Physics II (SQ)	4	C	
CHM 117: General Chemistry for Majors I (SQ) AND CHM 111: General Chemistry Laboratory for Majors I (SQ)	4	C	
Science and Society Elective	3	C	
 Maintain 2.50 GPA in Critical Tracking Courses.			
Complete Mathematics (MA) requirement.			
Term hours subtotal:	15		
Term 4 45 - 62 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 201: Mathematical Methods in Physics I (CS)	3	C	<ul style="list-style-type: none"> CHM 116 may be taken in place of CHM 118 and CHM 112.
 PHY 252: Physics III (SQ)	4	C	

CHM 118: General Chemistry for Majors II (SQ) AND CHM 112: General Chemistry Laboratory for Majors II (SQ)	4	C	<ul style="list-style-type: none"> MAT 275 and (MAT 342 or MAT 343) may be taken in place of PHY 201. PHY 201 is recommended. Students who do not take PHY 201 will need a Computer/Statistics/Quantitative Applications (CS) course. Explore research fields within physics.
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
🔹 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	17		
Term 5 62 - 77 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ CHM 345: Physical Chemistry I	3	C	<ul style="list-style-type: none"> Gain research experience
BIO 360: Animal Physiology OR BIO 353: Cell Biology	3	C	
Upper Division Science and Society Elective	3	C	
Literacy and Critical Inquiry (L)	3		
Elective	3		
Term hours subtotal:	15		
Term 6 77 - 92 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ CHM 346: Physical Chemistry II	3	C	<ul style="list-style-type: none"> Use Handshake to research employment opportunities. Start preparing for after graduation.
★ PHY 312: Mechanics and Electromagnetism	3	C	
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
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:	15		
Term 7 92 - 107 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY 371: Driving Forces in Biology	3	C	<ul style="list-style-type: none"> Develop your professional online presence
★ PHY 472: Advanced Biophysics Lab	3	C	
Upper Division Literacy and Critical Inquiry (L)	3		
Upper Division Elective OR PHY 484: Internship	3		
Elective	3		
Term hours subtotal:	15		
Term 8 107 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY 473: From Molecules to Cells	3	C	
Complete 3 courses:			
Upper Division Elective	9		
Elective	1		
Term hours subtotal:	13		

- 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.

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.