2023 - 2024 Major Map

Physics, BA

School/College: The College of Liberal Arts and Sciences

LAPHYBA

Term 1 - A 0 - 7 Credit Hours	Hours	Minimum Grade	Notes		
ASU 101-LA: The ASU Experience	1		• ASIL 101 or college specific equivalent		
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	 ASU 101 or college-specific equivalent First-Year Seminar is required for all first-year students. Select your career interest area and play 		
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		me3@ASU.		
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	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.		
Maintain 2.00 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	• ASU Language Placement: Only those		
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С	students with no experience with the language may take a 101-level course. Al other students are required to take a		
Maintain 2.00 GPA in Critical Tracking Courses.			language placement exam, regardless of		
Term hours subtotal:	7		prior credit earned.Join a student club or professional organization.		
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			
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С			
• Complete ENG 101 OR ENG 105 OR ENG 107 course(s).					
Term hours subtotal	: 8				
Term 3 - A 28 - 35 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes		
• MAT 267: Calculus for Engineers III (MA)	3	С			

Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	C	 Review the Career Guide for ASU Online students to learn about availab career planning resources.
Term hours subtotal:	7		
Cerm 3 - B 35 - 43 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
PHY 131: University Physics II: Electricity and Magnetism (SQ) AND PHY 132: University Physics Laboratory II (SQ)	4	C	
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	С	
Complete Mathematics (MA) requirement.			
Term hours subtotal:	8		
erm 4 - A 43 - 50 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
PHY 241: University Physics III AND PHY 202: Programming for Physicists	4	C	 Register for a Handshake account and participate in virtual career advising.
Literacy and Critical Inquiry (L)	3		participate in virtual career advising.
Term hours subtotal:	7		
erm 4 - B 50 - 59 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
PHY 201: Mathematical Methods in Physics I (CS)	3	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Elective	3		
Term hours subtotal:	9		
erm 5 - A 59 - 68 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
PHY 302: Mathematical Methods in Physics II	3	C	
Social-Behavioral Sciences (SB)	3		
Elective	3		
Term hours subtotal:	9		
erm 5 - B 68 - 74 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
PHY 314: Quantum Physics I	3	С	
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
Term hours subtotal:	6		
erm 6 - A 74 - 81 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
PHY 310: Classical Particles, Fields, and Matter I	3	С	 Develop your professional online presence CHM 114 may be taken in place of CHM 113
CHM 113: General Chemistry I (SQ)	4	C	
Term hours subtotal:	7		
erm 6 - B 81 - 90 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
PHY 311: Classical Particles, Fields, and Matter II	3	С	
Upper Division Literacy and Critical Inquiry (L) (PHY 334 recommended)	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 90 - 99 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🐈 Upper Division Physics Elective	3	С	• Complete practice interview.
Upper Division Elective	3		
Elective	3		
Term hours subtotal:	9		
Ferm 7 - B 99 - 105 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Upper Division Elective	3		
Term hours subtotal:	6		
Ferm 8 - A 105 - 111 Credit Hours Necessary course signified by	Hours	Minimum Grade	Notes
🜟 Upper Division Physics Elective	3	С	• Apply for graduation.
Upper Division Elective	3		
Term hours subtotal:	6		
Ferm 8 - B 111 - 120 Credit Hours	Hours	Minimum Grade	Notes
Complete 3 courses: Upper Division Elective	9		• Apply for full-time positions.
Term hours subtotal:	9		

Hide Course List(s)/Track Group(s)

Upper Division Physics Electives	
PHY 315: Quantum Physics II	
PHY 333: Electronic Circuits and Measurements	
PHY 334: Advanced Laboratory I (L)	
PHY 361: Introductory Modern Physics	
PHY 394: Intro to Research Technique	

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.