

2024 - 2025 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		<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar is required for all first-year students. Select your career interest area 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 (HUAD)	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 (MATH OR 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 2.00 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 (MATH OR MA)	3	C	<ul style="list-style-type: none"> ASU Language Placement: Only those students with no experience with the language may take a 101-level course. All other students are required to take a language placement exam, regardless of prior credit earned. Join a student club or professional organization.
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	
⚠ Maintain 2.00 GPA in Critical Tracking Courses.			
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 (SCIT OR SQ) AND PHY 122: University Physics Laboratory I (SCIT OR 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	C	
⚠ 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 (MATH OR MA)	3	C	<ul style="list-style-type: none"> Review the Career Guide for ASU Online students to learn about available career planning resources.

Second Language: Requirement satisfied through the following: 4 C
 * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.

Term hours subtotal: 7

Term 3 - B 35 - 43 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
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⚠ PHY 131: University Physics II: Electricity and Magnetism (SCIT OR SQ) AND PHY 132: University Physics Laboratory II (SCIT OR 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 C

Complete Mathematics (MATH) requirement.

Term hours subtotal: 8

Term 4 - A 43 - 50 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
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⚠ PHY 241: University Physics III AND PHY 202: Programming for Physicists 4 C

Humanities, Arts and Design (HUAD) 3

Term hours subtotal: 7

- Register for a [Handshake](#) account and participate in [virtual career advising](#).

Term 4 - B 50 - 59 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
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⚠ PHY 201: Mathematical Methods in Physics I (MATH OR CS) 3 C

Quantitative Reasoning (QTRS) 3

Upper Division Elective 3

Term hours subtotal: 9

Term 5 - A 59 - 68 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ PHY 302: Mathematical Methods in Physics II 3 C

Governance and Civic Engagement (CIVI) 3

Social and Behavioral Sciences (SOBE) 3

Term hours subtotal: 9

Term 5 - B 68 - 74 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ PHY 314: Quantum Physics I 3 C

Sustainability (SUST) 3

Term hours subtotal: 6

Term 6 - A 74 - 81 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ PHY 310: Classical Particles, Fields, and Matter I 3 C

CHM 113: General Chemistry I (SCIT OR SQ) 4 C

Term hours subtotal: 7

- Develop your [professional online presence](#)
- CHM 114 may be taken in place of CHM 113

Term 6 - B 81 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
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★ PHY 311: Classical Particles, Fields, and Matter II 3 C

Global Communities, Societies and Individuals (GCSI) 3

Upper Division Elective 3

Term hours subtotal: 9

Term 7 - A 90 - 99 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Physics Elective	3	C	• Complete practice interview .
Complete 2 courses:			
Upper Division Elective	6		
Term hours subtotal:	9		
Term 7 - B 99 - 105 Credit Hours	Hours	Minimum Grade	Notes
American Institutions (AMIT)	3		
Upper Division Elective	3		
Term hours subtotal:	6		
Term 8 - A 105 - 111 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Physics Elective	3	C	• Apply for graduation.
Upper Division Elective	3		
Term hours subtotal:	6		
Term 8 - B 111 - 120 Credit Hours	Hours	Minimum Grade	Notes
Complete 3 courses:			• Apply for full-time positions .
Upper Division Elective	9		
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

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

Notes:

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.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.