
































2024 - 2025 Major Map

Physics, BS

School/College: [The College of Liberal Arts and Sciences](#)
LAPHYBS

Term 1 - A 0 - 8 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		
Elective	1		
Term hours subtotal:	8		
Term 1 - B 8 - 14 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 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	6		
Term 2 - A 14 - 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"> Join a student club or professional organization
Social and Behavioral Sciences (SOBE)	3		
Term hours subtotal:	6		
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	
Humanities, Arts and Design (HUAD)	3		
Elective	1		
 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 - 37 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
Science and Society Elective	3	C	
Elective	3		
Term hours subtotal:	9		
		Minimum	

Term 3 - B 37 - 44 Credit Hours Critical course signified by 	Hours	Grade	Notes
 PHY 131: University Physics II: Electricity and Magnetism (SCIT OR SQ) AND PHY 132: University Physics Laboratory II (SCIT OR SQ)	4	C	
Sustainability (SUST)	3		
 Maintain 2.50 GPA in Critical Tracking Courses.			
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	7		
Term 4 - A 44 - 51 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 241: University Physics III AND PHY 202: Programming for Physicists	4	C	<ul style="list-style-type: none"> Register for a Handshake account and participate in virtual career advising
Quantitative Reasoning (QTRS)	3		
Term hours subtotal:	7		
Term 4 - B 51 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 201: Mathematical Methods in Physics I (MATH OR CS)	3	C	
Complete 2 courses:			
Elective	6		
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	9		
Term 5 - A 60 - 69 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 302: Mathematical Methods in Physics II	3	C	<ul style="list-style-type: none"> Research career outlooks
Governance and Civic Engagement (CIVI)	3		
Upper Division Elective	3		
Term hours subtotal:	9		
Term 5 - B 69 - 75 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 314: Quantum Physics I	3	C	
 PHY 334: Advanced Laboratory I (L)	3	C	
Term hours subtotal:	6		
Term 6 - A 75 - 81 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 310: Classical Particles, Fields, and Matter I	3	C	<ul style="list-style-type: none"> Develop your professional online presence
 PHY 315: Quantum Physics II	3	C	
Term hours subtotal:	6		
Term 6 - B 81 - 90 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 311: Classical Particles, Fields, and Matter II	3	C	<ul style="list-style-type: none"> Consider completing an internship to gain practical experience
Upper Division Science and Society Elective	3	C	
Upper Division Elective OR PHY 484: Internship	3		
Term hours subtotal:	9		
Term 7 - A 90 - 96 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 441: Statistical and Thermal Physics	3	C	<ul style="list-style-type: none"> Create a resume Complete a virtual practice interview
Global Communities, Societies and Individuals (GCSI)	3		

Term hours subtotal: 6

Term 7 - B 96 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY 412: Classical Particles, Fields, and Matter III	3	C	
PHY 333: Electronic Circuits and Measurements OR PHY 465: Advanced Laboratory II	3	C	
Upper Division Elective	3		
Term hours subtotal:	9		

Term 8 - A 105 - 114 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHY Upper Division Elective	3	C	• Apply for graduation
American Institutions (AMIT)	3		
Elective	3		• Apply for full-time career opportunities
Term hours subtotal:	9		

Term 8 - B 114 - 120 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Elective	3		
Elective	3		
Term hours subtotal:	6		

- 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)

- **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.