













2024 - 2025 Major Map





Physics, BS

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

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 270: Calculus with Analytic Geometry I (MATH OR MA) OR MAT 265: Calculus for Engineers I (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> • ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students • MAT 270 is recommended • PHY 191 is recommended • 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 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 (HUAD)	3		
Social and Behavioral Sciences (SOBE)	3		
Elective (PHY 191 recommended)	1		
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	15-14		
Term 2 15 - 31 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 271: Calculus with Analytic Geometry II (MATH OR MA) OR MAT 266: Calculus for Engineers II (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> • MAT 271 is recommended • PHY 150 is recommended • Join a student club or professional organization
PHY 150: Physics I (SCIT OR SQ) OR PHY 121: University  Physics I: Mechanics (SCIT OR SQ) AND PHY 122: University Physics Laboratory I (SCIT OR 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	
Humanities, Arts and Design (HUAD)	3		
Elective	2		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	16-15		
Term 3 31 - 48 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 272: Calculus with Analytic Geometry III (MATH OR MA) OR MAT 267: Calculus for Engineers III (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> • MAT 272 is recommended • PHY 151 is recommended • Take a look at internship or research opportunities
PHY 151: Physics II (SCIT OR SQ) OR PHY 131: University  Physics II: Electricity and Magnetism (SCIT OR SQ) AND PHY 132: University Physics Laboratory II (SCIT OR SQ)	4	C	
Science and Society Elective	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Sustainability (SUST)	3		
 Maintain 2.50 GPA in Critical Tracking Courses.			




Complete Mathematics (MATH) requirement.

Term hours subtotal: 17-16

Term 4 48 - 63 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 PHY 201: Mathematical Methods in Physics I (MATH OR CS)	3	C	<ul style="list-style-type: none">• PHY 252 is recommended• Activate your Handshake account and build out your profile
 PHY 252: Physics III (SCIT OR SQ) OR PHY 241: University Physics III AND PHY 202: Programming for Physicists	4	C	
Quantitative Reasoning (QTRS)	3		
Complete 2 courses:			
Elective	5		
 Maintain 2.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	15		

Term 5 63 - 78 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">• Prepare for a career or graduate school• Create a first draft resume
🌟 PHY 310: Classical Particles, Fields, and Matter I	3	C	
🌟 PHY 314: Quantum Physics I	3	C	
Governance and Civic Engagement (CIVI)	3		
Upper Division Elective	3		
Term hours subtotal:	15		

Term 6 78 - 93 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">• Explore graduate programs• Prepare for graduate school exams
🌟 PHY 315: Quantum Physics II	3	C	
🌟 PHY 334: Advanced Laboratory I (L)	3	C	
Upper Division Science and Society Elective	3	C	
Upper Division Elective OR PHY 484: Internship	3		
Term hours subtotal:	15		

Term 7 93 - 108 Credit Hours Necessary course signified by 	Hours	Minimum Grade	Notes
 PHY 412: Classical Particles, Fields, and Matter III OR PHY 416: Quantum Physics III	3	C	<ul style="list-style-type: none">• Develop your professional online presence• Submit graduate school applications
 PHY 441: Statistical and Thermal Physics	3	C	
PHY 333: Electronic Circuits and Measurements OR PHY 465: Advanced Laboratory II	3	C	
American Institutions (AMIT)	3		
Upper Division Elective	3		
Term hours subtotal:	15		

Term 8 108 - 120 Credit Hours Necessary course signified by 🌟	Hours	Minimum Grade	Notes
🌟 PHY Upper Division Elective	3	C	• Apply for full-time careers
.....			
Complete 2 courses:			
Upper Division Elective	6		
.....			
Elective	3		
.....			
Term hours subtotal:	12		

- 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.