

2025-2026 Degree Map-Bachelor of Science in Physics

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at <https://catalog.atu.edu/>

#Prerequisite Courses: ENGL 0303 ____ MATH 0803 ____ MATH 1003 ____ MATH 0903 ____ MATH 1113 ____
MATH 1110 ____ MATH 1203 ____ MATH 1914 ____

Possible Careers: Astronomy/Astrophysics, Biophysics, Chemical Physics, Condensed Matter, Engineering Physics, Geophysics, Medical/Health Physics, Nuclear Physics, etc

Sample Schedule

Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
COMS 1013/1011- Programming I & Lab	4		Prereq: #C or > in MATH 1113 or higher math
MATH 2914- Calculus I (ACTS=MATH 2405)	4	#	Students with MATH ACT 26 or higher eligible to enroll in MATH 2914
CHEM 2124/2120- General Chemistry I and lab	4		
PHSC 1001- Orientation to Physical Science	1		Meet with Career Services
Total hours	16	GPA	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
PHYS 2114/2000- Calculus-Based Physics I and lab	4		
MATH 2924- Calculus II (ACTS= MATH 2505)	4		
PHSC 1011- Orientation to Physical Science II	1		No substitutions allowed
Elective	4		
Total hours	16	GPA	Create résumé and upload to Handshake

Semester 3	Hrs.	Grade	Semester 3
COMS 2203- Programming Foundations II	3		Attend Career fairs on campus
MATH 2934- Calculus III (ACTS= MATH 2603)	4		Work on resume for internships
Social Science	3		
PHYS 2124/2010- Calculus-Based Physics II and lab	4		
Total hours	14	GPA	

Semester 4	Hrs.	Grade	Semester 4
Biological Science with lab	4		
ELEG 2103- Electric Circuits I	3		
MATH 3243- Differential Equations I	3		
PHYS 3213- Modern Physics	3		Do a mock interview utilizing Career Services
U.S. History & Government	3		
Total hours	16	GPA	PHYS ADVISOR ASSIGNED

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed by searching keyword "ACTS" at <https://adhe.edu/>

Fine Arts and Humanities ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Survey of Music History (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL/JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003) 1013 from SPAN, FR, GER, JPN, CHIN, or LAT 1023 from SPAN, FR, GER, JPN, CHIN, or LAT LEAD 2003 Ethics in Leadership	U.S. History & Government HIST 1903 Survey of American History HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003) University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum
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Sample Schedule

Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
COMS 2323- Programming in Python	3		Meet with faculty advisor about internships
Elective	4		
Fine Arts & Humanities	3		
PHYS 3023- Mechanics or PHYS 4013- Quantum Mechanics	3		
PHYS 3133- Elec/Magnet or PHYS 4023- Computational Phys	3		PHYS 3133 offered alternating fall semesters
Total hours	16	GPA	

Semester 6	Hrs.	Grade	Semester 6
Fine Arts & Humanities	3		
PHYS 4003-Thermodynam/ Stat Mech or Elective (3000-4000 level)	3		Excludes: MATH 3003, 3033, 4113
PHYS 3003- Optics or PHYS 4113- Advanced Physics Lab	3		
*Elective	2		
STAT 3153- Applied Statistics	3		
Total hours	14	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.	Grade	Semester 7
PHYS 3023- Mechanics or PHYS 4013- Quantum Mechanics	3		
PHYS 3133- Elec/Magnet or PHYS 4023- Computational Phys	3		PHYS 3133 offered alternating fall semesters
Social Science	3		
*Elective (3000-4000 level)	3		
*Elective (3000-4000 level)	3		
Total hours	15	GPA	

Semester 8	Hrs.	Grade	Semester 8
Social Sci./Fine Arts/Humanities/Comm	3		Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA No more than 12 hours of "D" grades
PHYS 4003-Thermodynam/ Stat Mech or Elective (3000-4000 level)	3		
PHYS 3003- Optics or PHYS 4113- Advanced Physics Lab	3		
PHYS 4951- Physics or Engineering Physics Capstone	1		
*Elective (3000-4000 level)	3		
Total Hours	13	GPA	

*General Electives: 7 hours (1000-4000 level) 9 hours (3000-4000 level)

indicates a "C" or better is required

Social Sciences HIST 1503 World History to 1500 (ACTS=HIST1113) HIST 1513 World History since 1500 (ACTS=HIST1123) HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003) ECON 2003 Principles of Macroeconomics (ACTS=ECON2103) ECON 2013 Principles of Microeconomics (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOCI1013) PSY 2003 General Psychology (ACTS=PSYC1103)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013) ANTH 2003 Cultural Anthropology (ACTS=ANTH2013) GEOG 2013 Regional Geography of the World (ACTS=GEOG2103) AMST 2003 American Studies FIN 2013 Personal Finance LEAD 1003 Introduction to Leadership
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