

2026-2027 Degree Map-Bachelor of Science in Engineering 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: Engineering (Process and Testing), Research, Quality Control, Development, Instrumentation, Consulting

Sample Schedule	Milestones/Notes	
Semester 1	Hrs.	Grade
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#
PHSC 1001-Orientation to Physical Science	1	
MATH 2914-Calculus I (ACTS= MATH 2405)	4	#
COMS 1013/1011-Programming Foundations I and lab	4	
CHEM 2124/2120-General Chemistry I and lab	4	
Total hours	16	GPA

Sample Schedule	Milestones/Notes	
Semester 5	Hrs.	Grade
Fine Arts/Humanities	3	
ELEG 2113-Electric Circuits II	3	
ELEG 2111-Electric Circuits Lab	1	
PHYS 3023-Mechanics or PHYS 4013-Quantum Mechanics	3	
PHYS 3133-Elec/Magnet or PHYS 4023-Computational Phys	3	
COMS 2323-Programming in Python	3	
Total hours	16	GPA

Semester 2	Hrs.	Grade
ENGL 1023-Comp II (ACTS= ENGL 1023)	3	#
PHSC 1011-Orientation to Physical Science II	1	
MATH 2924-Calculus II (ACTS= MATH2505)	4	
MCEG 2023-Engineering Materials	3	
PHYS 2114/2000-Calculus-Based Physics I and lab	4	
Total hours	15	GPA

Semester 6	Hrs.	Grade
US History/ Government	3	
PHYS 3003-Optics or PHYS 4113-Advanced Physics Lab	3	
PHYS 4213-Adv Topic/ Physic/ Astrono (or UD MATH) or PHYS 4003-Thermodynam/ Stat Mech	3	
MCEG 3013-Mechanics of Materials	3	
MCEG 3313-Thermodynamics I	3	
Total hours	15	GPA

Semester 3	Hrs.	Grade
Social Sciences	3	
PHYS 2124/2010-Calculus-Based Physics II and lab	4	
MATH 2934-Calculus III (ACTS= MATH 2603)	4	
MCEG 2013-Statics	3	
COMS 2203-Programming Foundations II	3	
Total hours	17	GPA

Semester 7	Hrs.	Grade
MCEG 4403-Mechanics of Fluids and Hydraulics	3	
PHYS 3023-Mechanics or PHYS 4013-Quantum Mechanics	3	
PHYS 3133-Elec/Magnet or PHYS 4023-Computational Phys	3	
MCEG 4202-Engineering Design	2	
ELEG/MCEG/COMS Elective (3000-4000 level)	3	
Total hours	14	GPA

Semester 4	Hrs.	Grade
Fine Arts/Humanities	3	
ELEG 2103-Electric Circuits I	3	
MCEG 2033-Dynamics	3	
MATH 3243-Differential Equations I	3	
PHYS 3213-Modern Physics	3	
Total hours	15	GPA

Semester 8	Hrs.	Grade
PHYS 3003-Optics or PHYS 4113-Advanced Physics Lab	3	
PHYS 4213-Adv Topic/ Physic/ Astrono (or UD MATH) or PHYS 4003-Thermodynam/ Stat Mech	3	
PHYS 4061-Engineering Physics Design	1	
MCEG 4443-Heat Transfer	3	
ELEG/MCEG/COMS Elective (3000-4000 level)	2	
Total hours	12	GPA

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/>

Electives: ELEG/MCEG/COMS 5 hours 3000-4000 level

indicates a "C" or better is required

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)
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University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.

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)	Social Sciences 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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