

2026-2027 Degree Map Program-Bachelor of Science Computer Engineering

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: Hardware, Software, Network, Embedded Systems, or IoT Engineering, Research & Development. Preparation for Graduate Programs in Computer Engineering.

Sample Schedule	Milestones/Notes	
Semester 1	Hrs.	Grade
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#
Fine Arts & Humanities	3	
MATH 2914-Calculus I (ACTS= MATH 2405)	4	#
CHEM 2124/2120-General Chemistry I and lab	4	
TECH 1001-Orientation to the University	1	
ELEG 1011-Intro to Electrical and Computer Engineering	1	
Total hours	16	GPA

Sample Schedule	Milestones/Notes	
Semester 5	Hrs.	Grade
Social Sciences	3	
Fine Arts & Humanities	3	
MATH 2703-Discrete Mathematics	3	
ELEG/MCEG 3003-Modeling Design	3	
ELEG 3103-Electronics I	3	
Total hours	15	GPA

Semester 2	Hrs.	Grade
ENGL 1023-Comp II (ACTS= ENGL 1023)	3	#
COMS 1013/1011-Programming Foundations I and lab	4	
MATH 2924-Calculus II (ACTS= MATH 2505)	4	
ELEG 2134/2130-Digital Logic Design/ Lab	4	
Total hours	15	GPA

Semester 6	Hrs.	Grade
COMS 2213-Data Structures	3	
COMS 2223-Computer Organization and Prog	3	
ELEG 3123-Signals and Systems	3	
ELEG 3143-Electromagnetics	3	
ELEG 4103-Electronics II	3	
ELEG/MCEG 4202-Engineering Design		
Total hours	17	GPA

Semester 3	Hrs.	Grade
PHYS 2114/2000-Calculus-Based Physics I	4	
COMS 2203-Programing Foundations II	3	
MATH 3243-Differential Equations I	3	
ELEG 2103-Electric Circuits I	3	
ELEG 3133-Microprocessor Systems Design	3	
Total hours	16	GPA

Semester 7	Hrs.	Grade
ELEG 4113-Digital Signal Processing	3	
ELEG 4133-Advanced Digital Design	3	
ELEG 4143-Communication Systems I	3	
CMPE 4191-Computer Engineering Design Project I	1	
ELEG 4303-Control Systems	3	
Total hours	13	GPA

Semester 4	Hrs.	Grade
PHYS 2124/2010- Calculus-Based Physics II (ACTS= PHYS 2044)	4	
MATH 2934- Calculus III (ACTS= MATH 2603)	4	
STAT 3153 Applied Statistics	3	
ELEG 2113/2111- Electric Circuits II/ Lab	4	
Total hours	15	GPA

Semester 8	Hrs.	Grade
COMS 3703- Advanced Operating Systems	3	
ELEG 4122- Electrical Systems Lab	2	
U.S. History/Government	3	
CMPE 4192- Computer Engineering Design Project II	2	
ELEG Elective (3000-4000 level)	3	
Total hours	13	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/>

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.	

Electives: 0 # 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 Macroeconomics (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOC1013) 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	NOTE 1 - Consider Accelerated BSCMPE Computer Engineering to MENG Electrical Engineering. See Catalog BEFORE Junior Year.