

2025-2026 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 ____

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
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			
ELEG 1011- Intro to Electrical and Computer Engineering	1			
TECH 1001- Orientation to the University	1		Meet with Career Services	
Total hours	16	GPA		

Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	Draft a résumé and upload it to Handshake	
COMS 1013- Programming Foundations I	3			
COMS 1011- Programming Foundations I Lab	1		Lab is Pass/Fail	
MATH 2924- Calculus II (ACTS= MATH 2505)	4			
ELEG 2134/2130- Digital Logic Design/ Lab	4		Pre-req: ELEG 1011	
Total hours	15	GPA		

Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
PHYS 2114/2000- Calculus-Based Physics I	4		Work on resume for internships	
COMS 2203- Programing Foundations II	3		Attend Career fairs on campus	
MATH 3243- Differential Equations I	3			
ELEG 2103- Electric Circuits I	3			
ELEG 3133- Microprocessor Systems Design	3		SEE NOTE 1: AB2M	
Total hours	16	GPA		

Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
PHYS 2124/2010- Calculus-Based Physics II (ACTS= PHYS 2044)	4			
MATH 2934- Calculus III (ACTS= MATH 2603)	4			
STAT 3153 Applied Statistics	3		Start applying to internships	
ELEG 2113/2111- Electric Circuits II/ Lab	4		Do a mock interview utilizing Career Services	
Total hours	15	GPA	ELEG 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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Possible Careers: Hardware, Software, Network, Embedded Systems, or IoT Engineering, Research & Development. Preparation for Graduate Programs in Computer Engineering.

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Social Sciences	3		Meet with faculty advisor about internships	
Fine Arts & Humanities	3			
MATH 2703- Discrete Mathematics	3			
ELEG/MCEG 3003- Modeling Design	3			
ELEG 3103- Electronics I	3		Fall Only	
Total hours	15	GPA		

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

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

Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
COMS 3703- Advanced Operating Systems	3		Spring only	
ELEG 4122- Electrical Systems Lab	2		Spring only	
U.S. History/Government	3		Graduation Requirements:	
CMPE 4192- Computer Engineering Design Project II	2		Min. hours 3000-4000 level courses: 40	
ELEG Elective (3000-4000 level)	3		No more than 4 PE activity hours	
Total Hours	13	GPA	Min. hours required: 120 2.00+ GPA	

General 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 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 NOTE 1 - Consider Accelerated BSCMPE Computer Engineering to MENG Electrical Engineering. See Catalog BEFORE Junior Year.
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