

NAME:

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Rev. 2/25/2021

2021-2022 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 http://www.atu.edu/catalog/

Employment Information: Electrical and Computer engineers design, develop, build, and test computer hardware, software, and systems. Other electrical systems may include robotics, controls, communications systems, and electronic equipment.

#Prerequisite Courses: ENGL 0303_____MATH 0803_____MATH 1003_____MATH 0903_____MATH 1113_____MATH 1110_____MATH 1203_____N

Sample Schedule			Milestones/Notes	
Semester 1	Hrs.	Grade	Semester 1	
ENGL 1013 -Comp I (ACTS=ENGL 1013)	3	#		
Fine Arts & Humanities	3			
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	Milestone	
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4			
ELEG 1011- Intro. to Electrical Engineering	1			
TECH 1001- Orientation to the University	1			
Total hours	16	GPA		
Semester 2	Hrs.		Semester 2	
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#		
COMS 2104- Foundations of Computer Programming I	4	#	(COMS 1403/1411 not required)	
MATH 2924- Calculus II (ACTS= MATH 2505)	4	#	Milestone	
ELEG 2134/2130- Digital Logic Design/ Lab	4		Pre-req: ELEG 1011 or COMS 2104 -Milestone	
Total hours	15	GPA		
Semester 3	Hrs.		Semester 3	
PHYS 2114/2000- Calculus-Based Physics I (ACTS= PHYS 2034)	4		Milestone	
COMS 2203- Foundations of Computer Prog II	3		Milestone	
MATH 3243- Differential Equations I	3		Milestone	
ELEG 2103- Electric Circuits I	3		Milestone	
ELEG 3133- Microprocessor Systems Design	3			
Total hours	16	GPA		

Semester 4	Hrs.		Semester 4
PHYS 2124/2010- Calculus-Based Physics II (ACTS= PHYS 2044)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		Milestone
STAT 3153 Applied Statistics 1	3		
ELEG 2113/2111- Electric Circuits II/ Lab	4		Milestone
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 at https://www.adhe.edu/students-parents/colleges-universites/transfer-info.-for-students/

Fine Arts and Humanities ART 2123 Experiencing Art (ACTS=ARTA1003) MUS 2003 Introduction to Music (ACTS=MUSC1003) TH 2273 Introduction to Theatre (ACTS=DRAM 1003) ENGL 2173 Introduction to Film ENGL 2183 Honors Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Introduction to World Literature (ACTS=ENGL2153) ENGL 2023 Honors World Literature PHIL 2003 Introduction to Philosophy PHIL 2003 Introduction to Philosophy PHIL 2003 Introduction to Critical Thinking (ACTS=PHIL1003) U.S. History & Government HIST 1903 Survey of American History HIST 2003 United States History to 1877 (ACTS=HIST2113) HIST 2043 Honors United States History to 1877 HIST 2013 United States History from 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003)

Sample Schedule			Milestones/Notes	
Semester 5	Hrs.	Grade	Semester	
Social Sciences	3			
Fine Arts & Humanities	3			
COMS 2903-Discrete Structures for Technical Majors	3			
ELEG 3003 or MCEG 3003- Modeling Design	3		Milestor	
ELEG 3103- Electronics I	3		Fall On	
Total hours	15	GPA		
Semester 6	Hrs.		Semester	
COMS 2213- Data Structures	3		Spring on	
COMS 2223- Computer Organization and Prog.	3		Spring on	
ELEG 3123- Signals and Systems	3		Spring on	
ELEG 3143- Electromagnetics	3		Spring on	
ELEG 4103- Electronics II	3		Spring or	
Total hours	15	GPA	APPLY FOR GRADUATIO	
Semester 7	Hrs.		Semester	
ELEG 4113-Digital Signal Processing	3		Fall Or	
ELEG 4133- Advanced Digital Design	3		Fall Or	
ELEG 4143- Communication Systems I	3		Fall Or	
ELEG 4191- Electrical Design Project I	1			
ELEG 4303- Control Systems	3			
ELEG 4202 or MCEG 4202- Engineering Design	2		Milesto	
Total hours	15	GPA		
Semester 8	Hrs.		Semester	
U.S. History/Government	3			
COMS 3703- Operating Systems	3		Spring or	
ELEG 4122- Electrical Systems Lab	2		Spring or	
ELEG 4192- Electrical Design Project II	2		Graduation Requirement	
ELEG Engineering Elective (3000-4000 level)	3		No more than 4 PE activity hou	
Total Hours	13	GPA	Min. hours required:12	
General Electives: 0			2.00+ GF	

indicates a "C" or better is required

HIST 1503 World History to 1500 (ACTS=HIST1113) HIST 1513 World History since 1500 (ACTS=HIST1123) HIST 1543 Honors World History to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2043 Honors U.S. History to 1877 HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003) ECON 2003 Americal of Economics I (ACTS=ECON2103) ECON 2003 Honors Principles of Economics I Social Sciences ECON 2013 Principles of Economics II (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