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Rev. 12/8/2023

2023-2024 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.

Semester 3

SEE NOTE 1: AB2M

Mileston

Milestone

Mileston

Milestone

#Prerequisite Courses: ENGL 0303 MATH 0803 MATH 1003 MATH 0903 MATH 1113 MATH 1110 Sample Schedule Milestones/Notes Semester 1 Hrs. Grade Semester 1 ENGL 1013 -Comp I (ACTS=ENGL 1013) 3 # Fine Arts & Humanities 4 # MATH 2914- Calculus I (ACTS= MATH 2405) Mileston CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414) 4 1 ELEG 1011- Intro. to Electrical Engineering TECH 1001- Orientation to the University Total hours 16 GPA Semester 2 Hrs. Semester 2 ENGL 1023- Comp II (ACTS= ENGL 1023) 3 # COMS 1013- Programming Foundations I 3 # 1 # COMS 1011- Programming Foundations I Lab Lab is Pass/Fa MATH 2924- Calculus II (ACTS= MATH 2505) 4 # Milestone ELEG 2134/2130- Digital Logic Design/ Lab 4 Pre-reg: ELEG 1011 - Milestone

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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 by searching keyword "ACTS" at https://adhe.edu/

Fine Arts and Humanities

Total hours
Semester 3

Total hours

ART 2123 Experiencing Art (ACTS=ARTA1003)
MUS 2003 Introduction to Music (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=PHIL103)
PHIL 2003 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

PHYS 2114/2000- Calculus-Based Physics I (ACTS= PHYS 2034)

COMS 2203- Programing Foundations II

MATH 3243- Differential Equations I

ELEG 2103- Electric Circuits I
ELEG 3133- Microprocessor Systems Design

U.S. History & Government

15 GPA

3

3

16 GPA

Hrs.

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)

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

MATH 1203____ MATH 1914____ Sample Schedule

Milestones/Notes

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Semester 5	Hrs.	Grade	Semester 5
Social Sciences	3		
Fine Arts & Humanities	3		
MATH 2703- Discrete Mathematics	3		
ELEG 3003 or MCEG 3003- Modeling Design	3		Milestone
ELEG 3103- Electronics I	3		Fall Only
Total hours	15	GPA	

	- I	1	
Semester 6	Hrs.		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 4202 or MCEG 4202- Engineering Design			
Total hours	17	GPA	APPLY FOR GRADUATION
Semester 7	Hrs.		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
ELEG 4191- Electrical Design Project I	1		
ELEG 4303- Control Systems	3		
Total hours	13	GPA	
Semester 8	Hrs.		Semester 8
U.S. History/Government	3		
COMS 3703- Operating Systems	3		Spring only
ELEG 4122- Electrical Systems Lab	2		Spring only
ELEG 4192- Electrical Design Project II	2		Graduation Requirements:
ELEG Engineering Elective (3000-4000 level)	3		No more than 4 PE activity hours
Total Hours	13	GPA	Min. hours required:120

General Electives: 0 2.00+ GPA
Min. hours 3000-4000 level courses: 40

indicates a "C" or better is required

HIST 1503 World History to 1500 (ACTS=HIST1113)
HIST 1513 World History since 1500 (ACTS=HIST1123)
HIST 2013 U.S. History to 1877 (ACTS=HIST113)
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=SOC11013)
PSY 2003 General Psychology (ACTS=PSVC1103)

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