

NAME: \_\_\_\_\_ T#: \_\_\_\_\_

**Bachelor of Science in Electrical Engineering (Computer Engineering Option) - 8-Semester Guaranteed Program**

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/academics/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.

#Remedial Courses (if applicable): ENGL 0303 \_\_\_\_\_ ENGL 0404 \_\_\_\_\_ READ 0103 \_\_\_\_\_ MATH 0903 \_\_\_\_\_

Prerequisites (if applicable): MATH 1914 (ACTS = MATH 1305) \_\_\_\_\_ or MATH 1203 (ACTS = MATH 1203) \_\_\_\_\_

Semester 1 Course Information	Hrs.	Grade	Notes
ENGL 1013 - Composition I (ACTS = ENGL 1013)	3	#	
CHEM 2124/2120 - General Chemistry I (ACTS = CHEM 1414)	4		
MATH 2914 - Calculus I (ACTS = MATH 2405)	4		Milestone
ELEG 1012 - Intro. to Electrical Engineering	2		
Fine Arts & Humanities	3		
<b>Total hours</b>	<b>16</b>	<b>GPA</b>	

Semester 5 Course Information	Hrs.	Grade	Notes
Social Sciences	3		
ELEG/MCEG 3003 - Engineering Modeling and Design	3		Milestone
ELEG 3103 - Electronics I (Offered Fall Only)	3		
COMS 2903 - Discrete Structures	3		
Fine Arts & Humanities	3		
<b>Total hours</b>	<b>15</b>	<b>GPA</b>	

Semester 2 Course Information	Hrs.	Notes
ENGL 1023 - Composition 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	
ELEG 2134/2130 - Digital Logic Design/ Lab	4	Milestone
<b>Total hours</b>	<b>15</b>	<b>GPA</b>

Semester 6 Course Information	Hrs.	Notes
COMS 2213 - Data Structures	3	Spring only
COMS 2223 - Computer Organization and Prog.	3	
ELEG 3123 - Signals and Systems	3	
ELEG 3143 - Electromagnetics	3	
ELEG 4103 - Electronics II	3	
<b>Total hours</b>	<b>15</b>	<b>GPA</b> <b>APPLY FOR GRADUATION</b>

Semester 3 Course Information	Hrs.	Notes
PHYS 2114/2000 - General Physics I (ACTS = PHYS 2034)	4	Milestone
COMS 2203 - Foundations of Computer Prog II	3	
MATH 3243 - Differential Equations I	3	
ELEG 2103 - Electrical Circuits I	3	
ELEG 3133 - Microprocessor Systems Design	3	
<b>Total hours</b>	<b>16</b>	<b>GPA</b>

Semester 7 Course Information	Hrs.	Notes
ELEG 4113 - Digital Signal Processing	3	Fall Only
ELEG 4133 - Advanced Digital Design	3	
ELEG 4143 - Communication Systems I	3	
ELEG/MCEG 4202 - Engineering Design	2	
ELEG 4303 - Control Systems	3	
<b>Total hours</b>	<b>14</b>	<b>GPA</b>

Semester 4 Course Information	Hrs.	Notes
PHYS 2124/2010 - General Physics II (ACTS = PHYS 2044)	4	Milestone
MATH 2934 - Calculus III (ACTS = MATH 2603)	4	
ELEG/MATH 3173 - Math Methods for Engineers	3	
ELEG 2113/2111 - Electrical Circuits II/ Lab	4	
<b>Total hours</b>	<b>15</b>	<b>GPA</b>

Semester 8 Course Information	Hrs.	Notes
U.S. History/Government	3	Graduation Requirements:
COMS 3703 - Operating Systems (Offered Spring Only)	3	
ELEG 4122 - Electrical Systems Lab (Offered Spring Only)	2	
ELEG 4193 - Electrical Design Project	3	
Engineering Elective (3000-4000)	3	
<b>Total Hours</b>	<b>14</b>	<b>GPA</b>

# indicates a "C" or better is required

General Electives: 0

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 <http://acts.adhe.edu/>

Fine Arts and Humanities	U.S. History & Government
ART 2123 - Experiencing Art (ACTS = ARTA 1003)	HIST 1903 - Survey of American History
MUS 2003 - Introduction to Music (ACTS = MUSC 1003)	HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)
TH 2273 - Introduction to Theatre (ACTS = DRAM 1003)	HIST 2043 - Honors U.S. History to 1877
ENGL 2173 - Introduction to Film	HIST 2013 - U.S. History II (ACTS = HIST 2123)
JOUR 2173 - Introduction to Film	POLS 2003 - American Government (ACTS = PLSC 2003)
ENGL 2003 - Intro to World Literature (ACTS = ENGL2113)	Science with Lab
ENGL 2013 - Intro to American Literature (ACTS = ENGL 2653)	BIOL 1014 - Intro to Biological Science (ACTS = BIOL 1004)
ENGL 2023 - Honors World Literature	BIOL/PHSC 1004 - Principles of Environmental Science
PHIL 2003 - Introduction to Philosophy (ACTS = PHIL 1103)	GEOL 1014 - Physical Geology (ACTS = GEOL 1114)
PHIL 2043 - Honors Introduction to Philosophy	PHSC 1013/1021 - Physical Sci/Lab (ACTS = PHSC 1004)

Social Sciences	
HIST 1503 - World History to 1500 (ACTS = HIST 1113)	ECON 2013 - Princ of Economics II (ACTS = ECON 2203)
HIST 1513 - World History since 1500 (ACTS = HIST 1123)	SOC 1003 - Introductory Sociology (ACTS = SOCI 1013)
HIST 1543 - Honors World History to 1500	PSY 2003 - General Psychology (ACTS = PSYC 1103)
HIST 2003 - U.S. History to 1877 (ACTS = HIST 2113)	ANTH 1213 - Intro to Anthropology (ACTS = ANTH 1013)
HIST 2013 - U.S. History since 1877 (ACTS = HIST 2123)	ANTH 2003 - Cultural Anthropology (ACTS = ANTH 2013)
HIST 2043 - Honors U.S. History to 1877	GEOG 2013 - Regional Geography (ACTS = GEOG 2103)
HIST 1903 - Survey of American History	AMST 2003 - American Studies
POLS 2003 - American Government (ACTS = PLSC 2003)	Speech Courses
ECON 2003 - Princ of Economics I (ACTS = ECON 2103)	SPH 1003 - Intro to Speech Com (ACTS = SPCH 1003)
ECON 2103 - Honors Principles of Economics I	SPH 2003 - Public Speaking
	SPH 2173 - Business and Professional Speaking