

8-Semester Guaranteed Program

DATE:

OR MATH 1203(ACTS=MATH1203)

Rev. 3/4/2016

## 2016-2017 Degree Map Program: Bachelor of Science in Electrical Engineering, Major: Electrical 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/academics/catalog/.

Employment Information: Electrical engineers design, develop, build, and test, electrical and electronic devices and systems. These systems include robotics, controls, electric motors, radar and navigation systems, communications systems, electronic equipment, and power generation and distribution devices and systems including renewable energy applications.

#Remedial Courses (if applicable):ENGL 0303 ENGL 0	0404	_ READ 01	03 MATH 0903
Sample Schedule			Milestones/Notes
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013-Comp I (ACTS=ENGL 1013)	3	#	
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4		
MATH 2914- Calculus I (ACTS= MATH 2405)	4		#C or > required for Gen Ed. Milestone
TECH1001: Orientation to the University	1		
ELEG 1011- Intro. to Electrical Engineering	1		
U.S. History/Government	3		
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		Milestone
Total hours	15	GPA	

Sample Schedule		Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5	
Technical Elective- Department Approval Required	3			
ELEG 3003 or MCEG 3003- Modeling Design	3		Milestone	
ELEG 3103- Electronics I	3		Fall Only Course - Milestone	
ELEG 3153- Electrical Machines	3		Fall Only Course- Milestone	
Engineering Elective (3000-4000 level)	3			
Total hours	15	GPA		

T#:

Prerequisites (if applicable):MATH 1914(ACTS=MATH1305)

Semester 6	Hrs.		Semester 6
MATH Elective (department approval required)	3		
ELEG 3123- Signals and Systems	3		Spring only
ELEG 3143- Electromagnetics	3		Spring only
ELEG 4103- Electronics II	3		Milestone - Spring Only
Fine Arts & Humanities	3		
Total hours	15	GPA	APPLY FOR GRADUATION

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

Semester 4	Hrs.		Semester 4
ELEG 3173 or MATH 3173- Math Methods	3		Spring only
PHYS 2124/2010- General Physics II (ACTS= PHYS 2044)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		Milestone
ELEG 2113/2111- Electrical 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

http://acts.adhe.edu/

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 JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) ENGL 2023 Honors World Literature PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2043 Honors Introduction to Philosophy 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)

Hrs.		Semester 7
3		
1		
3		Fall Only
3		Fall Only
2		Milestone
3		
15	GPA	
Hrs.		Semester 8
2		Spring only
3		Graduation Requirements:
2		Min. hours 3000-4000 level courses: 40
3		No more than 4 PE activity hours
3		Min. hours required:120
13	GPA	2.00+ GPA
	3 3 3 2 3 15 Hrs. 2 3 3 2 3 3 3 3	3 1 3 2 3 15 GPA Hrs. 2 3 2 3 2 3 2 3 2 3 2 3 2 3 4 2 3 5 3 4 5 5 5 6 7 4 5 5 6 7 4 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7

General Electives: 0

# indicates a "C" or better is required (C > required in COMS 2104 only as prereq for COMS 2203)

HIST 1503 World Civilization to 1500 (ACTS=HIST1113) HIST 1513 World Civilization since 1500 (ACTS=HIST1123) HIST 1543 Honors World Civilization to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2123) 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 Principles of Economics I (ACTS=ECON2103) ECON 2103 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