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8-Semester Guaranteed Program

DATE:

2016-2017 Degree Map Program: Bachelor of Science Electrical Engineering, Major: Electrical Engineering With Computer Engineering Option

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____

Sample Schedule Milestones/Notes Semester 1 Grade Hrs. Semester 1 ENGL 1013-Comp I (ACTS=ENGL 1013) 3 # CHEM 2124/2120- General Chemistry | (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 3 U.S. History/Government 16 GPA Total hours Semester 2 Hrs. Semester 2 ENGL 1023- Comp II (ACTS= ENGL 1023) 3 # COMS 2104- Foundations of Computer Programming 4 # (COMS 1403/1411 not required) MATH 2924- Calculus II (ACTS= MATH 2505) 4 Milestone ELEG 2134/2130- Digital Logic Design/ Lab 4 Milestone 15 GPA Total hours Semester 3 Hrs. Semester 3 PHYS 2114/2000- General Physics I (ACTS= PHYS 2034) 4 Milestone COMS 2203- Foundations of Computer Prog II 3 Milestone 3 MATH 3243- Differential Equations I Milestone ELEG 2103- Electrical Circuits 3 Milestone ELEG 3133- Microprocessor Systems Design 3 16 GPA Total hours

Semester 4	Hrs.		Semester 4
PHYS 2124/2010- General Physics II (ACTS= PHYS 2044)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		Milestone
ELEG 3173 or MATH 3173- Math Methods	3		Spring only
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	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA 1003)	HIST 1903 Survey of American History
MUS 2003 Intro to Music (ACTS=MUSC 1003)	HIST 2003 United States History to 1877 (ACTS=HIST2113)
TH 2273 Intro to Theatre (ACTS =DRAM 1003)	HIST 2043 Honors United States History to 1877
ENGL 2173 Intro to Film	HIST 2013 United States History from 1877 (ACTS=HIST2123)
JOUR 2173 Intro to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2003 Intro to World Literature (ACTS=ENGL 2113)	
ENGL 2013 Intro to American Literature (ACTS=ENGL 2653)	
ENGL 2023 Honors World Literature	
PHIL 2003 Intro to Philosophy (ACTS=PHIL 1103)	
PHIL 2043 Honors Introduction to Philosophy	

Prerequisites (if applicable):MATH 1914(ACTS=MATH1305) OR MATH 1203(ACTS=MATH1203)			
Sample Schedule			Milestones/Notes
Semester 5	Hrs.	Grade	Semester 5
Social Sciences	3		
ELEG 3003 or MCEG 3003- Modeling Design	3		Milestone
ELEG 3103- Electronics I	3		Fall Only
COMS 2903-Discrete Structures	3		
Fine Arts & Humanities	3		
Total hours	15	GPA	

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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
Total hours	15	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 4202 or MCEG 4202- Engineering Design	2		Milestone
ELEG 4303- Control Systems	3		
ELEG 4191- Electrical Design Project I	1		
Total hours	15	GPA	
Semester 8	Hrs.		Semester 8
Fine Arts & Humanities	3		Graduation Requirements:
COMS 3703- Operating Systems	3		Spring only
ELEG 4122- Electrical Systems Lab	2		Spring only
ELEG 4192- Electrical Design Project II	2		No more than 4 PE activity hours
Engineering Elective (3000-4000 level)	3		Min. hours required:120
Total Hours	13	GPA	2.00+ GPA
General Electives: 0			Min. hours 3000-4000 level courses: 40

Social Sciences

indicates a "C" or better is required

HIST 1503 World Civilization to 1500 (ACTS=HIST1113) HIST 1513 World Civilization since 1500 (ACTS=HIST1123) HIST 1513 Honors World Civilization to 1500 HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2003 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 ECON 2013 Principles of Economics II (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOC1013) 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

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