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8-Semester Guaranteed Program

Rev. 3/14/2014

2014-2015 Degree Map-Bachelor of Science in Electrical Engineering- Traditional 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 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 0404___ READ 0103___ 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
ELEG 1012- Intro. to Electrical Engineering	2		
Total hours	13	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	

Semester 3	Hrs.		Semester 3
MCEG 2023- Engineering Materials	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
Fine Arts & Humanities	3		
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=ARTA 1003) MUS 2003 Intro to Music (ACTS=MUSC 1003) TYPE 2723 Intro to Theatre (ACTS = DRAM 1003) ENGL 2173 Intro to Film JOUR 2173 Intro to Film

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

U.S. History & Government

HIST 1903 Survey of American History HIST 2003 U.S. History I (ACTS=HIST 2113)

HIST 2043 Honors U.S. History I

HIST 2013 U.S. History II (ACTS=HIST 2123)

POLS 2003 American Government (ACTS=PLSC 2003)

Prerequisites (if applicable):MATH 1914(ACTS=MATH1305) OR MATH 1203(ACTS=MATH1203)

Sample Schedule

Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
MCEG 2013- Statics	3		Milestone
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	

Semester 6	Hrs.		Semester 6
MCEG 2033- Dynamics	3		
ELEG 3123- Signals and Systems	3		Spring only
ELEG 3143- Electromagnetics	3		Spring only
ELEG 3173 or MATH 3173- Math Methods	3		Spring only
ELEG 4103- Electronics II	3		Milestone - Spring Only
Total hours	15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.		Semester 7
Social Sciences	3		
Fine Arts & Humanities	3		
ELEG 4113-Digital Signal Processing	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		
Total hours	17	GPA	
Semester 8	Hrs.		Semester 8
ELEG 4122- Electrical Systems Lab	2		Spring only
U.S. History/Government	3		Graduation Requirements:
ELEG 4193- Electrical Design Project	3		Min. hours 3000-4000 level courses: 40
Technical Elective- Department Approval Required	3		No more than 4 PE activity hours
Engineering Elective (3000-4000 level)	3		Min. hours required:120
Total Hours	14	GPA	2.00+ GPA

General Electives: 0

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

Social Science

HIST 1503 World Civilization (ACTS=HIST 1113) ECON 2103 Honors Principles of Economics I HIST 1513 World Civilization II (ACTS=HIST 1123) ECON 2013 Principles of Economics II (ACTS=ECON 2203) HIST 1543 Honors World Civilization I SOC 1003 Intro Sociology (ACTS=SOCI 1013) HIST 2003 U.S. History I (ACTS=HIST 2113) PSY 2003 General Psychology (ACTS=PSYC 1103) HIST 2013 U.S. HISTORY II (ACTS=HIST 2123) ANTH 1213 Intro to Anthropology (ACTS=ANTH 1013) HIST 2043 Honors U.S. History I ANTH 2003 Cultural Anthropology (ACTS=ANTH 2013) HIST 1903 Survey of American History GEOG 2013 Rgnl Geog of the World (ACTS=GEOG 2103) POLS 2003 American Government (ACTS=PLSC 2003) AMST 2003 American Studies ECON 2003 Principles of Economics I (ACTS=ECON 2103) AGBU 2063 Prin Agri Macroeconomics AGBU 2073 Prin Agri Microeconomics