

8-Semester Guaranteed Program

T#:

DATE:____

Rev. 03/15/17

2018-2019 Degree Map-Bachelor of Science in Engineering Physics

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/

Possible careers include: Architectural and Engineering Manager, Validation Engineer, Photonics Engineer, Nanosystems Engineer, Physicist, Engineering Teacher, Solar Energy Systems Designer

Sample Schedule			Milestones/Notes	Sample Schedule		Milestones/Notes			
Semester 1	Hrs.	Grade	Semester 1	Semester 5 Social Sci/Fine Arts/Humanities		Grade	Semester 5		
ENGL 1013- Comp (ACTS=ENGL 1013)	3	#							
PHSC 1001- Orientation to Physical Science	1			ELEG 2103- Electric Circuits I	3				
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	#C or > required for Gen Ed. Milestone	PHYS 3023- Mechanics Or PHYS 3213- Modern Physics	3				
COMS 2803- Programming in C	3			PHYS 4113- Adv. Physics Lab or *MATH Elec. (3000-4000)	3		Complete both PHYS 4113 & MATH.		
CHEM 2124/2120- Gen. Chem. I (ACTS=CHEM1414)	4		Milestone	PHYS 4213- Adv Topics or			PHYS 4113 offered in alternating years.		
				MCEG 3013- Mech of Materials	3				
Total hours	15	GPA		Total hours	15	GPA			

Semester 2	Hrs.		Semester 2	Semester 6	Hrs.		Semester 6
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	\$ #		Social Sci/Fine Arts/Humanities	3	3	
PHSC 1011- Orientation to Physical Science II	1		No substitutions allowed.	ELEG 2113/2111- Electric Circuits II and Lab	4	Ļ	
MATH 2924- Calculus II (ACTS= MATH2505)	4	Ļ	Milestone	PHYS 4003- Thermo/Stats Mech or PHYS 3003- Optics	3	3	
MCEG 2023- Engineering Materials	3	;		PHYS 4013 Quantum Mech or	3	;	
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4	ŀ		PHYS 3133- Electr. & Magnetism			
Total hours	15	GPA		Total hours	13	GPA	APPLY FOR GRADUATION

Semester 3	Hrs.		Semester 3
Social Sci/Fine Arts/Humanities/Comm	3		
PHYS 2114/2000- General Physics I (ACTS=PHYS 2034)	4		Milestone
MATH 2934- Calculus III (ACTS= MATH 2603)	4		
Biological Science	4		
Total hours	15	GPA	

Semester 4	Hrs.		Semester 4
Social Sci/Fine Arts/Humanities	3		
Social Sci/Fine Arts/Humanities	3		
PHYS 2124/2010- General Physics II (ACTS=PHYS 2044)	4		Milestone
MATH 3243- Differential Equations I	3		
General Elective	2		
Total hours	15	GPA	PHYS 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 Flim JOUR 2173 Introduction to Film ENGL 2013 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Introduction to Philosophy (ACTS=PHIL103) PHIL 2003 Introduction to Philosophy PHIL 2033 Introduction to Philosophy PHIL 2043 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 since 1877 (ACTS=HIST2123) POLS 2003 American Government (ACTS=PLSC2003) Communication Courses COMM 1003 Intro to Speech Comm COMM 2003 Public Speaking COMM 2173 Business and Professional Speaking

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3		
3		
3		Complete both PHYS 4113 & MATH.
3		PHYS 4113 offered in alternating years.
y: 1		
3		
16	GPA	
Hrs.		Semester 8
1		
3		Graduation Requirements:
3		Min. hours 3000-4000 level courses: 40
3		No more than 4 PE activity hours
3		Min. hours required:120
3		2.00+ GPA
16	GPA	No more than 12 hours of "D" grades
	3 3 4 1 3 16 Hrs. 1 3 3 3 3 3 3 3 3	3 3 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

Social Sciences

General Electives: 2 hours (1000-4000 level) *MATH Electives exclude MATH 3003, 3033, 4113

indicates a "C" or better is required

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=HIST2113) HIST 2013 U.S. History since 1877 (ACTS=HIST2123) HIST 2013 U.S. History to 1877 (ACTS=HIST2123) HIST 2013 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=SOC11013) PSV 2003 General Psychology (ACTS=PSVC1103) 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