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Rev. 10/7/2013

2013-2014 Degree Map-Bachelor of Science in 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/academics/catalog/.

Possible careers include: Natural Sciences Manager, Physicist, Physics Teacher, Aeronautical & Aerospace Engineer, Aerospace Engineering Technician, Atmospheric and Space Scientist, Cartographer, Hydraulic Engineer, Photogrammetrist

Sample Schedule Milestones/Notes			Sample Schedule			Milestones/Notes	
Semester 1	Hrs.	Grade	Semester 1	Semester 5	Hrs.	Grade	Semester 5
#ENGL 1013: Comp (ACTS=ENGL 1013)	3			Fine Arts & Humanities		3	
Social Sci./Fine Arts/Humanities/Speech	3			MATH3243: Differential Equations I	~ , ,	3	
#MATH1914: Pre-Cal (ACTS=MATH1305) <u>or</u>	3 or 4		Placement determined by MATH ACT.	ELEG2103: Electric Circuits I		3	
MATH 1203: Plane Trig (ACTS: MATH1203)			Students with MATH ACT 24> may	PHYS 3023 Mechanics or PHYS 3213 Modern Physics		3	
CHEM2124/2120:Gen. Chem. I (ACTS=CHEM1414) MILESTONE	4		be eligible to enroll in MATH 2914.	PHYS 3133: Electr. & Magnetism or		3	Note 1: PHYS3133 offered in
PHSC1001: Orientation to Physical Science	1			PHYS Elective(3000-4000)			alternating Fall semesters.
Total hours	15	GPA		Total hours	15	6 GPA	

Semester 2	Hrs.		Semester 2
#ENGL 1023: Comp II (ACTS= ENGL 1023)	3		
Social Science	3		
MATH2914: Calculus I (ACTS= MATH 2405)	4		Milestone
PHSC1011: Orientation to Physical Science II	1		Milestone
CHEM2134/2130: General Chemistry II (ACTS= CHEM 1424)	4		No substitutions allowed.
Total hours	15	GPA	Milestone

Semester 3	Hrs.		Semester 3
COMS2803: Programming in C	3		
Social Science	3		
MATH2924: Calculus II (ACTS= MATH2505)	4		Milestone
PHYS 2114/2000: General Physics I (ACTS=PHYS 2034)	4		Milestone
General Elective	3		
Total hours	17	GPA	

Semester 4	Hrs.		Semester 4
Biological Science	4		
U.S. History & Government	3		
MATH2934: Calculus III (ACTS= MATH 2603)	4		Milestone
PHYS 2124/2010: General Physics II (ACTS=PHYS 2044)	4		
Total hours	15	GPA	PHYS ADVISOR ASSIGNED
The Arkansas Course Transfer System (ACTS) is designed to assist in plan	ning the academ	nic 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 & G
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Surve
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 U.S. H
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Hono
ENGL 2173 Introduction to Film	HIST 2013 U.S. H
JOUR 2173 Introduction to Film	POLS 2003 Amer
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	Speech Courses
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	SPH 1003 Intro.
ENGL 2023 Honors World Literature	SPH 2003 Public
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	SPH 2173 Busine
PHIL 2043 Honors Introduction to Philosophy	

IST Eligonal Survey of American History IST 2003 Survey of American History IST 2003 U.S. History I (ACTS=HIST2113) IST 2003 Honors U.S. History I IST 2013 U.S. History II (ACTS=HIST2123) OLS 2003 American Government (ACTS=PLSC2003) peech Courses PH 1003 Intro. to Speech Com. (ACTS=SPCH1003) PH 2003 Public Speaking PH 2173 Business and Professional Speaking

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
ELEG2111: Electric Circuits Laboratory	1		
ELEG2113: Electric Circuits II	3		
PHYS4013 Quantum Mech <u>or</u> PHYS4113: Adv. Physics Lab	3		
PHYS Elective (3000-4000 level)	3		
*General Elective	2		
Total hours	15	GPA	APPLY FOR GRADUATION
Semester 7	Hrs.		Semester 7
PHYS 3023 Mechanics Or PHYS 3213 Modern Physics	3		
PHYS 3133: Electr. & Magnetism or PHYS Elective (3000-4000)	3		See Note 1 in Semester 5
**MATH Elective (3000-4000 level)	3		See excluded math courses below.
*General Elective	3		
*General Elective	3		
Total hours	15	GPA	

Semester 8	Hrs.		Semester 8
PHYS4013 Quantum Mech <u>or</u> PHYS4113: Adv. Physics Lab	3		Graduation Requirements:
PHYS 4991-4: Special Problems in Physics and Astronomy	1-4		40 hours 3000-4000 level courses
*MATH Elective (3000-4000 level)	3		No more than 4 PE activity hours
*General Elective (3000-4000 level)	3-6		Min. hours required:120
			2.00+ GPA
Total Hours	13	GPA	No more than 12 hours of "D" grades

*General Electives: 14-17 hours (Choose at least 7 hrs. from PHYS, PHSC, BIOL, ENGR, COMS)

**Math Elective Exclusions: Math 3003, 3033, 4133

indicates a "C" or better is required

HIST 1503 World Civilization (ACTS=HIST1113)
HIST 1513 World Civilization II (ACTS=HIST1123)
HIST 1543 Honors World Civilization I
HIST 2003 U.S. History I (ACTS=HIST2113)
HIST 2013 U.S. HISTORY II (ACTS=HIST2123)
HIST 2043 Honors U.S. History I
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