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Rev. 02/16/21

2021-2022 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/catalog/

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

#Prerequisite Courses: ENGL 0303 MATH 0803 MATH 1003 MATH 0903 MATH 1113 MATH 1110

mple Schedule Milestones/Note			Milestones/Notes
Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
Social Sci./Fine Arts/Humanities/Comm	3		
MATH 1914- Pre-Cal (ACTS=MATH1305) or	3 or 4	#	Placement determined by MATH ACT.
MATH 1203- Plane Trig (ACTS= MATH1203)			Students with MATH ACT 26 or higher
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4		may be eligible to enroll in MATH 2914.
PHSC 1001- Orientation to Physical Science	1		
Total hours	15	GPA	

Semester 2	Hrs.		Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
Social Science	3		
MATH 2914- Calculus I (ACTS= MATH 2405)	4		Milestone
PHSC 1011- Orientation to Physical Science II	1		Milestone
CHEM 2134/2130- Gen. Chem. II(ACTS=CHEM1424) Milestone	4		No substitutions allowed.
Total hours	15	GPA	Milestone

Semester 3	Hrs.		Semester 3
COMS 2803- Programming in C	3		
Social Science	3		
MATH 2924- Calculus II (ACTS= MATH2505)	4		Milestone
PHYS 2114/2000- Calculus-Based 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		
MATH 2934- Calculus III (ACTS= MATH 2603)	4		Milestone
PHYS 2124/2010- Calculus-Based Physics II (ACTS=PHYS 2044)	4		
Total hours		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 https://www.adhe.edu/students-parents/colleges-universites/transfer-info.-for-students/

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 2183 Honors 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 PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)

н	IST	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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Semester 5	Hrs.	Grade	Semester 5
Fine Arts & Humanities	3		
MATH 3243- Differential Equations I	3		
ELEG 2103- Electric Circuits I	3		
PHYS 3023- Mechanics or PHYS 3213- Modern Physics	3		
PHYS 3133- Electr. & Magnetism or	3		Note 1: PHYS3133 offered in
PHYS Elective(3000-4000)			alternating Fall semesters.
Total hours	15	GPA	_

Semester 6	Hrs.		Semester 6
Fine Arts & Humanities	3		
ELEG 2111- Electric Circuits Laboratory	1		
ELEG 2113- Electric Circuits II	3		
PHYS 4013- Quantum Mech or PHYS 4113- 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
PHYS 4013- Quantum Mech or PHYS 4113- Adv. Physics Lab	3		Graduation Requirements:
PHYS 4991- SpcI Probs. PHYS&Astrmy OR PHYS 4951- UG Rsrch in Phys	1-4		Min. hours 3000-4000 level courses: 40
*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)

indicates a "C" or better is required HIST 1503 World History to 1500 (ACTS=HIST1113)

HIST 1513 World History since 1500 (ACTS=HIST1123)

HIST 2003 U.S. History to 1877 (ACTS=HIST2113)

HIST 2013 U.S. History since 1877 (ACTS=HIST2123)

POLS 2003 American Government (ACTS=PLSC2003)

ECON 2103 Honors Principles of Economics I

ECON 2003 Principles of Economics I (ACTS=ECON2103)

HIST 1543 Honors World History to 1500

HIST 2043 Honors U.S. History to 1877

HIST 1903 Survey of American History

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

^{**}Math Elective Exclusions: Math 3003, 3033, 4113