

2017-2018 Degree Map-Bachelor of Science in Physics Education

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: Biological Science Teacher, Forestry/Conservation Science Teacher, Atmospheric, Earth, Marine, and Space Science Teacher, Chemistry Teacher, Environmental Science Teacher, Physics Teacher

#Prerequisite Courses: ENGL 0303 ___ ENGL 0404 ___ READ 0103 ___ MATH 0803 ___ MATH 1003 ___ MATH 0903 ___ MATH 0900 ___ MATH 1110 ___ MATH 1203 ___ MATH 1914 ___

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	Required for admission to Stage II	
PHSC 1053- Astronomy	3			
MATH 2914- Calculus I (ACTS= MATH 2405)	4	#	Required for admission to Stage II	
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4	#		
PHSC 1001- Orientation to Physical Science	1	#		
Total hours	15	GPA		
Semester 2	Hrs.	Grade	Milestones/Notes	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	Required for admission to Stage II	
BIOL/ENVS/PHSC 1004- Principles of Environmental Science	4	#		
MATH 2924- Calculus II (ACTS= MATH 2505)	4	#		
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4	#		
PHSC 1011- Orientation to Physical Science II	1	#		
Total hours	16	GPA		
Semester 3	Hrs.	Grade	Milestones/Notes	Semester 3
HIST 1903- Survey of American History	3	#		
PHYS 2114/2000- General Physics I (ACTS=PHYS2034)	4	#	Pre/co-requisite: MATH 2924	
MATH 2934- Calculus III (ACTS= MATH 2603)	4	#		
POLS 2003- American Government (ACTS= PLSC2003)	3	#		
SEED 2002- Education as a Profession	2	#	Required for admission to Stage II	
Total hours	16	GPA		
Semester 4	Hrs.	Grade	Milestones/Notes	Semester 4
COMM 2003- Public Speaking	3	#	Required for admission to Stage II	
PHYS 2124/2010-General Physics II (ACTS=PHYS2044)	4	#		
MATH 3243- Differential Equations	3	#	Prerequisite: MATH 2924	
PHSC 2003- Physics in Society and the Environment	3			
General Elective	3		2.70+ GPA REQUIRED	
Total hours	16	GPA	PHYS & SEED 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 Theatre (ACTS=DRAM 1003)
 ENGL 2173 Introduction to Film
 JOUR 2173 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

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes	Semester 5
Fine Arts & Humanities	3		Apply for Admission to Stage II	
Fine Arts & Humanities	3			
ANTH 2003- Cultural Anthropology (ACTS=ANTH 2013)	3	#		
PHYS 3213- Modern Physics			Prereq: PHYS 2124, PHYS 3213 offered fall odd years, PHYS offered fall even years	
OR PHYS 3133- Theory of Electricity and Magnetism	3	#		
PHYS, PHSC, CHEM, or MATH Elective	3	#		
Total hours	15	GPA		
Semester 6	Hrs.	Grade	Milestones/Notes	Semester 6
COMS 2003-Microcomputer Applications			Prerequisite: COMS 1003/BUAD 2003	
OR COMS 2803- Programming in C	3	#		
PHYS 4113- Advanced Physics Laboratory			Prerequisite: PHYS 3213	
OR PHYS 4993- Special Problems in Physics and Astronomy	3	#		
PHSC 3033- Meteorology	3	#	Prereq: any PHSC course, offered spring only	
PHSC 3252- The Nature and Context of Science	2	#	offered spring only	
SEED 3702- Introduction to Educational Technology	2			
Total hours	13	GPA	APPLY FOR GRADUATION	
Semester 7	Hrs.	Grade	Milestones/Notes	Semester 7
PHYS 3213- Modern Physics			Prereq: PHYS 2124, PHYS 3213 offered fall odd years, PHYS offered fall even years	
OR PHYS 3133- Theory of Electricity and Magnetism	3	#		
PHSC/BIOL 3233- Science Education in the Secondary School	3	#	Prereq: 16 hours BIOL or PHSC and SEED 2002	
SEED 3552- Child and Adolescent Development	2	#		
SEED 4052- Educating Diverse and Exceptional Learners	2	#	Requires Stage II Admission	
SEED 4556-Classroom Application of Educational Psychology	6	#	Requires Stage II Admission	
Total hours	16	GPA	Apply for Internship	
Students must receive passing Praxis II scores to be admitted to Internship				
Semester 8	Hrs.	Grade	Milestones/Notes	Semester 8
PHSC 4701- Special Methods in Physical Science	1	#	MUST BE ADMITTED TO INTERNSHIP	
SEED 4503- Seminar in Secondary Education	3	#		
SEED 4909- Teaching in the Secondary School	9	#	Graduation Requirements: Min. 120 earned hours	
Total Hours	13	GPA	2.70+ GPA	

General Electives: 1 hour (1000-4000 level)

indicates a "C" or better is required