

2023-2024 Degree Map-Bachelor of Science in Environmental Science

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: Environmental Consultant, Water Resource Specialist, Conservationist, Wildlife Manager, Urban and Regional Planner

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

Sample Schedule
Milestones/Notes

Semester 1	Hrs.	Grade	Semester 1
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
MATH 1113- College Algebra (ACTS= MATH 1103)	3	#	
ENVS 1004- Principles of Environmental Science	4		
BIOL 1011- Orientation to the Biological Sciences	1		
GEOL 1014- Physical Geology	4		
Total hours	15	GPA	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
SOC 1003- Introduction to Sociology	3		
U.S. History & Government	3		
BIOL 1114- Principles of Biology (ACTS= BIOL 1014)	4		
STAT 2163-Intro to Stat. Methods <u>or</u>	3	#	
PSY/SOC 2053-Stat for Behavioral Sciences			
Total hours	16	GPA	

Semester 3	Hrs.	Grade	Semester 3
Fine Arts & Humanities	3		
ECON 2003- Principles of Macroeconomics (ACTS=ECON2103)	3		
CHEM 2124/2120- Gen. Chem. I (ACTS=CHEM1414)	4		
BIOL 2124- Principles of Zoology (ACTS= BIOL 1054)	4		
Total hours	14	GPA	

Semester 4	Hrs.	Grade	Semester 4
Fine Arts & Humanities	3		
COMM 2003- Public Speaking	3		
CHEM 2134/2130- General Chemistry II (ACTS= CHEM 1424)	4		
BIOL 2134- Principles of Botany (ACTS= BIOL 1034)	4		
Total hours	14	GPA	BIOL 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 by searching keyword "ACTS" at <https://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/JOUR 2173 Introduction to Film ENGL 2003 Introduction to World Literature (ACTS=ENGL2113) ENGL 2013 Intro. to American Literature (ACTS=ENGL2653) PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103) PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003) 1013 from SPAN, FR, GER, JPN, CHIN, or LAT 1023 from SPAN, FR, GER, JPN, CHIN, or LAT	U.S. History & Government HIST 1903 Survey of American History HIST 2003 U.S. History to 1877 (ACTS=HIST2113) HIST 2013 U.S. 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

Sample Schedule
Milestones/Notes

Semester 5	Hrs.	Grade	Semester 5
BIOL/FW 3114- Principles of Ecology	4		
ENVS 3043- Conservation	3		
CHEM 3254- Fundamentals of Organic Chemistry	4		
FW 3173- Biostatistics <u>Or</u> MATH 2914- Calculus I	3-4		
Total hours	14-15	GPA	

Semester 6	Hrs.	Grade	Semester 6
ENVS 3111- Environmental Seminar	1		
CHEM 3264- Mechanistic Organic Chemistry	4		
PHYS 2014/2000- Algebra-Based Physics I (ACTS=PHYS 2014)	4		
Life Science*	4		See page 2 for approved choices
Physical Science w/out Lab or GIS/Research*	3		See page 2 for approved choices
Total hours	16	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.	Grade	Semester 7
Life Science*	3-4		*See page 2 for approved choices in: Life Science Human Dimensions Physical Science w/out and w/Lab Field Biology GIS/Research
Human Dimensions*	3		
Physical Science w/Lab* or Field Biology*	4-5		
Physical Science w/out Lab or GIS/Research*	3-4		
Elective*	0-4		
Total hours	13-16	GPA	

Semester 8	Hrs.	Grade	Semester 8
ENVS 4133- Env Policy OR FW 3053- FW Admin	3		Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA No more than 12 hours of "D" grades
Human Dimensions*	3		
Field Biology or Physical Science w/Lab*	4		
GIS/Research*	4		
Elective*	0-4		
Total Hours	14-18	GPA	

General Electives: 0-8 hours (*Must choose sufficient courses at 3000-4000 level to constitute a total of 40 upper level hours)

indicates a "C" or better is required

*Must choose sufficient electives at 3000-4000 level to constitute a total of 40 hours.

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) HIST 1903 Survey of American History POLS 2003 American Government (ACTS=PLSC2003)	Social Sciences 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 FIN 2013 Personal Finance LEAD 1003 Introduction to Leadership
ECON 2003 Principles of Macroeconomics (ACTS=ECON2103) ECON 2013 Principles of Microeconomics (ACTS=ECON2203) SOC 1003 Introductory Sociology (ACTS=SOCI1013) PSY 2003 General Psychology (ACTS=PSYC1103)	

University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.

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Core Environmental Science Curriculum

Life Science Electives (Choose 2)	Physical Science without Lab (Choose 1)	GIS and Research (Choose 2)
BIOL 3004 Plant Taxonomy BIOL 3034 Genetics BIOL 3054 Microbiology BIOL 3064 Parasitology BIOL/FW 3084 Ichthyology BIOL 3104 Intro to Entomology BIOL 3134 Invertebrate Zoology BIOL/FW 3114 Ornithology BIOL 3174 Physiological Ecology BIOL /FW 3224 Herpetology BIOL 4043 Conservation Genetics BIOL 4064 Evolutionary Biology BIOL 4163 Biodiversity & Conservation Bio	BIOL/CHEM 3353 Fundamentals of Toxicology CHEM 3313 Environmental Chemistry GEOL 3083 Hydrogeology GEOL 3153 Environmental Geology PHSC 3033 Meteorology	FW/GEOG 2833 Intro to Geographic Info Systems FW 3074 Habitat Evaluation FW 4034 Advanced GIS ENVS 4114 Environmental Science Internship ENVS 4884 Advanced Topics in Environmental Sci ENVS 4954 Undergrad Research in Environmental Sci BIOL 3033 Bioinformatics
Field Biology (Choose 1)	Physical Science with Lab (Choose 1)	Human Dimensions (Choose 2)
BIOL/FW 4024 Limnology BIOL 4094 Coastal Ecology ENVS 4124 Bio Assessment of Water Quality FW 4014 Forest Ecology & Management FW 4064 Wetland Ecology Management	CHEM 3245 Quantitative Analysis CHEM 4414 Instrumental Analysis PHYS 2024/2010 Algebra-Based Physics II	ANTH 2003 Cultural Anthropology ANTH 2103 Ozark-Ouchita Studies ANTH 2303 Globalization SOC 3033 Environment and Society SOC 3113 Social Movements and Change FW 4103 Human Dimensions of Fisheries and Wildlife Management