

**2022-2023 Degree Map-Bachelor of Science in Geology: Professional Option**

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, Water Resource Specialist, Geoscientist, Hydrologist, Atmospheric/Earth/Marine/Space Sciences Teacher, Geological Data Technician, Geologist, Seismologist, Petroleum Scientist, Environmental Scientist**

#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	#	
Biological Science	4		
PHSC 1001- Orientation to Physical Science	1		
MATH 1113- College Algebra (ACTS=MATH 1103)	3	#	Milestone
GEOL 1014- Physical Geology (ACTS= GEOL 1114)	4		Milestone
Total hours	15	GPA	

Semester 2	Hrs.	Grade	Semester 2
ENGL 1023- Comp II (ACTS= ENGL 1023)	3	#	
CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414)	4		Required prereq for GEOL3014
PHSC 1011- Orientation to Physical Science II (MANDATORY)	1		Substitutions not allowed.
MATH 1203- Plane Trigonometry (ACTS=MATH 1203)	3		
GEOL 2024- Historical Geology (ACTS= GEOL 1134)	4		Spring Only
Total hours	15	GPA	

Semester 3	Hrs.	Grade	Semester 3
U.S. History & Government	3		
CHEM 2134/2130:-General Chemistry II (ACTS= CHEM 1424)	4		Milestone Requires prereq: CHEM 2124
GEOL 2001- Seminar	1		
GEOL 3014- Mineralogy	4		Requires prereq: CHEM 2124
GEOG/FW 2833- Intro. to Geographic Information Systems	3		
Total hours	15	GPA	

Semester 4	Hrs.	Grade	Semester 4
Social Sci/Fine Arts/Humanities	3		
GEOL 3004- Structural Geology	4		
GEOL 3124- Invertebrate Paleo. <b>or</b> General Elective (3000-4000 level) <b>See Note 1</b>	4		<b>Note 1:</b> GEOL3124 and 4023 are offered only in spring of alternating yrs. If not offered, consult with advisor to choose a General Elective.
GEOL 3164- Petrology	4		
Total hours	15	GPA	<b>GEOL ADVISOR ASSIGNED</b>

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-universities/transfer-info.-for-students/>

# indicates a "C" or better is required

Fine Arts and Humanities	U.S. History & Government
ART 2123 Experiencing Art (ACTS=ARTA1003)	HIST 1903 Survey of American History
MUS 2003 Introduction to Music (ACTS=MUSC1003)	HIST 2003 United States History to 1877 (ACTS=HIST2113)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)	HIST 2043 Honors United States History to 1877
ENGL 2173 Introduction to Film	HIST 2013 United States History since 1877 (ACTS=HIST2123)
JOUR 2173 Introduction to Film	POLS 2003 American Government (ACTS=PLSC2003)
ENGL 2183 Honors Introduction to Film	<b>Communication Courses</b>
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)	COMM 1003 Intro to Speech Comm
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)	COMM 2003 Public Speaking
ENGL 2023 Honors World Literature	COMM 2173 Business and Professional Speaking
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)	
PHIL 2043 Honors Introduction to Philosophy	
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)	

Sample Schedule	Milestones/Notes		
Semester 5	Hrs.	Grade	Semester 5
PHYS 2014/2000- Algebra-Based Physics I (ACTS= PHYS2014)	4		See Catalog
GEOL 3001- Seminar	1		
GEOL 3023- Geologic Field Techniques	3		
*MATH/COMS Elective	3-4		
GEOL 3044- Geomorphology <b>or</b> General Elective (3000-4000 level) <b>See Note 2</b>	4		<b>Note 2:</b> GEOL3044 is only offered in fall of alternating yrs. If not offered, consult with advisor to choose a General Elective.
Total hours	15-16	GPA	

Semester 6	Hrs.	Grade	Semester 6
PHYS 2024/2010- Algebra-Based Physics II (ACTS= PHYS2024)	4		
GEOL 3124- Invertebrate Paleo. <b>or</b> GENL(3000-4000)	4		See <b>Note 1</b> in Semester 4
GEOL 3174- Computer Applications in Geology <b>or</b> GENL(3000-4000)	4		
Social Sci/Fine Arts/Humanities	3		
Total hours	15	GPA	<b>APPLY FOR GRADUATION</b>

Semester 7	Hrs.	Grade	Semester 7
Social Sci/Fine Arts/Humanities	3		
GEOL 4001- Seminar	1		
GEOL 4023- Stratgrphy & Sedimentation	4		See <b>Note 1</b> in Semester 4
GEOL 3153- Environmental Geology	3		
General Electives	3-4		
Total hours	13-14	GPA	

Semester 8	Hrs.	Grade	Semester 8
Social Sci/Fine Arts/Humanities/Comm	3		
GEOL 3174- Computer Applications in Geology <b>or</b> GENL(3000-4000)	4		
Social Sci/Fine Arts/Humanities	3		
Total Hours	10	GPA	<b>Graduation Requirements:</b> Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120
<b>Semester 9</b>	<b>Hrs.</b>		
**GEOL 4006- Field Geology	6		
Total Hours	6	GPA	2.00+ GPA

General Electives: (12 hours 3000-4000 level)

\*COMS 1003 Introduction to Computer Based Systems, COMS 1013 Programming I and COMS 1011 Programming I Lab, MATH 2914 Calculus I, or STAT 2163 Introduction to Statistical Methods.

\*\*Field Geology must be completed during the summer after Junior or Senior year

Social Sciences	
HIST 1503 World History to 1500 (ACTS=HIST1113)	ECON 2013 Principles of Economics II (ACTS=ECON2203)
HIST 1513 World History since 1500 (ACTS=HIST1123)	SOC 1003 Introductory Sociology (ACTS=SOCI1013)
HIST 1543 Honors World History to 1500	PSY 2003 General Psychology (ACTS=PSYC1103)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)	ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)	ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
HIST 2043 Honors U.S. History to 1877	GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
HIST 1903 Survey of American History	AMST 2003 American Studies
POLS 2003 American Government (ACTS=PLSC2003)	FIN 2013 Personal Finance
ECON 2003 Principles of Economics I (ACTS=ECON2103)	LEAD 1003 Introduction to Leadership
ECON 2103 Honors Principles of Economics I	