

2020-2021 Degree Map-Bachelor of Science in Geology: Petroleum 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 0900 _____ MATH 1110 _____

Sample Schedule

Semester 1	Hrs.	Grade	Milestones/Notes
ENGL 1013- Comp I (ACTS=ENGL 1013)	3	#	
PHSC 1001- Orientation to Physical Science	1		
MATH 1113- College Algebra (ACTS=MATH 1103)	3	#	Milestone
BIOL 1014- Intro. to Biological Science (ACTS= BIOL 1004)	4		
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		Prereq for GEOL 3014
MATH 1203- Plane Trig. (ACTS=MATH1203)	3		
GEOL 2024- Historical Geology (ACTS= GEOL 1134)	4		
PHSC 1011- Orientation to Physical Science II	1		Substitutions not allowed
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 2024
GEOL 2001- Seminar	1		
GEOL 3014- Mineralogy	4		Requires prereq: CHEM 2124
MATH 2914- Calculus I (ACTS= MATH 2405)	4		
Total hours	16	GPA	

Semester 4	Hrs.	Grade	Semester 4
GEOG 2833- Intro. to Geographic Information Systems	3		
Social Sci/Fine Arts/Humanities/Comm	3		
GEOL 3004- Structural Geology	4		Milestone
GEOL 3164- Petrology	4		
Total hours	14	GPA	GEOL 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 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)	U.S. History & Government HIST 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

Sample Schedule

Semester 5	Hrs.	Grade	Milestones/Notes
Social Sci/Fine Arts/Humanities	3		
GEOL 3044- Geomorphology	4		
PHYS 2014/2000- Algebra-Based Physics I (ACTS= PHYS2014)	4		
GEOL 3001- Seminar	1		
GEOL 3023- Geologic Field Techniques	3		
Total hours	15	GPA	

Semester 6	Hrs.	Grade	Semester 6
PHYS 2024/2010- Algebra-Based Physics II (ACTS= PHYS2024)	4		
Social Sci/Fine Arts/Humanities	3		
GEOL 3124- Invtbrte Paleo. or GEOL 4023- Strat. & Sediment	3-4		
GEOL 3174- Comp.Apps-Geol or GEOL 4034- Subsurf. Geol	4		
Total hours	14-15	GPA	APPLY FOR GRADUATION

Semester 7	Hrs.	Grade	Semester 7
Social Sci/Fine Arts/Humanities	3		
Social Sci/Fine Arts/Humanities	3		
GEOL 4001- Seminar	1		
GEOL 3153- Environmental Geology	3		
General Elective	4		
Total hours	14	GPA	

Semester 8	Hrs.	Grade	Semester 8
GEOL 3124- Invtbrte Paleo. or GEOL 4023- Strat. & Sediment	3-4		
GEOL 3174- Comp.Apps-Geol or GEOL 4034- Subsurf. Geol	4		
GEOL 4043- Geochemistry	3		
Total Hours	10-11		Min. hours 3000-4000 level courses: 40
Semester 9:	Hrs.	Grade	Semester 9
*GEOL 4006- Field Geology	6		No more than 4 PE activity hours
Total Hours	6	GPA	Min. hours required:120 2.00+ GPA

General Electives: 4 hours (1000-4000 level)

*Must be completed during the summer after Junior or Senior year

indicates a "C" or better is required

Social Sciences	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=SOC1013)
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)	
ECON 2003 Principles of Economics I (ACTS=ECON2103)	
ECON 2103 Honors Principles of Economics I	