

2023-2024 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 1110 _____

Sample Schedule

| Semester 1 | Hrs. | Grade | Milestones/Notes | Semester 1 |
|---|-----------|------------|------------------|------------|
| 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 | Milestones/Notes | 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 | | Spring Only | |
| PHSC 1011- Orientation to Physical Science II | 1 | | Substitutions not allowed | |
| Total hours | 15 | GPA | | |

| Semester 3 | Hrs. | Grade | Milestones/Notes | 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 | |
| GEOL 3044- Geomorphology | 4 | | | |
| Total hours | 16 | GPA | | |

| Semester 4 | Hrs. | Grade | Milestones/Notes | Semester 4 |
|--|-----------|------------|------------------------------|------------|
| GEOG/FW 2833- Intro. to Geographic Information Systems | 3 | | | |
| Social Sci/Fine Arts/Humanities/Comm | 3 | | | |
| GEOL 3164- Petrology | 4 | | | |
| MATH 2914- Calculus I (ACTS= MATH 2405) | 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 by searching keyword "ACTS" at <https://adhe.edu/>

Sample Schedule

| Semester 5 | Hrs. | Grade | Milestones/Notes | Semester 5 |
|--|-----------|------------|------------------|------------|
| Social Sci/Fine Arts/Humanities | 3 | | | |
| Social Sci/Fine Arts/Humanities | 3 | | | |
| PHYS 2014/2000- Algebra-Based Physics I (ACTS= PHYS2014) | 4 | | | |
| GEOL 3001- Seminar | 1 | | | |
| GEOL 3023- Geologic Field Techniques | 3 | | | |
| Total hours | 14 | GPA | | |

| Semester 6 | Hrs. | Grade | Milestones/Notes | Semester 6 |
|--|--------------|------------|-----------------------------|------------|
| PHYS 2024/2010- Algebra-Based Physics II (ACTS= PHYS2024) | 4 | | | |
| GEOL 3004- Structural Geology | 4 | | Milestone | |
| GEOL 3124- Invertbrte Paleo. or GEOL 4023- Strat. & Sediment | 3-4 | | | |
| GEOL 3174- Comp.Apps-Geol or GEOL 4034- Subsurf. Geol | 4 | | | |
| Total hours | 15-16 | GPA | APPLY FOR GRADUATION | |

| Semester 7 | Hrs. | Grade | Milestones/Notes | 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 | Milestones/Notes | Semester 8 |
|--|--------------|------------|---|------------|
| GEOL 3124- Invertbrte 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 | | Graduation Requirements: Min. hours 3000-4000 level courses: 40 No more than 4 PE activity hours Min. hours required:120 2.00+ GPA | |
| Semester 9: | Hrs. | Grade | | |
| *GEOL 4006- Field Geology | 6 | | | |
| Total Hours | 6 | 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

| | |
|--|--|
| 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 |

| | |
|---|---|
| Social Sciences 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) 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) | 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 |
|---|---|