



Program Learning Outcomes

<i>College/School</i>	Natural and Health Sciences
<i>Department</i>	Physical Sciences
<i>Program</i>	Geology (BS)
<i>Link to Program Home</i>	https://www.atu.edu/physci/stulrn-geology.php

Students who complete the program will demonstrate:

Geology (Environmental Option)

- Students completing the baccalaureate program will be able to demonstrate competency and understanding of the basic concepts found in physical and historical geology, mineralogy, petrology, structure, geomorphology, hydrogeology, environmental geology, and field geology.
- Baccalaureate graduates will be able to utilize the scientific method for formal investigation and to demonstrate competency with experimental methods that are used to discover and verify the concepts related to content knowledge.
- Baccalaureate graduates will demonstrate skills necessary for conducting environmentally themed geologic investigations and research related to content knowledge and laboratory skills.
- Baccalaureate graduates will be employed in a geology related job or enrolled in a graduate program.
- Baccalaureate graduates will have acquired the ability to effectively conduct environmentally themed geological investigations.
- Baccalaureate graduates will be able to produce and present oral and written communication (including graphs, maps, stratigraphic sections, geological cross sections, and subsurface diagrams) of activities associated with the discipline.

- Baccalaureate graduates will have acquired the analytical, mathematical, laboratory and field observational, and computer skills necessary for solving problems that are related to objectives (1) and (2).

Geology (Professional Option)

- Students completing the baccalaureate program will be able to demonstrate competency and understanding of the basic concepts found in physical and historical geology, mineralogy, petrology, structure, geomorphology, paleontology, field geology and sedimentology/stratigraphy.
- Baccalaureate graduates will be able to utilize the scientific method for formal investigation and to demonstrate competency with experimental methods that are used to discover and verify the concepts related to content knowledge.
- Baccalaureate graduates will demonstrate skills necessary for conducting geological investigations and research related to content knowledge and laboratory skills.
- Baccalaureate graduates will be employed in a geology related job or enrolled in a graduate program.
- Baccalaureate graduates will have acquired the ability to effectively conduct geological investigations.
- Baccalaureate graduates will be able to produce and present oral and written communication (including graphs, maps, stratigraphic sections, geological cross sections, and subsurface diagrams) of activities associated with the discipline.

Geology (Petroleum Option)

- Students completing the baccalaureate program will be able to demonstrate competency and understanding of the basic concepts found in physical and historical geology, mineralogy, petrology, structure, geomorphology, paleontology, field geology, sedimentology/stratigraphy, and subsurface geology.
- Baccalaureate graduates will be able to utilize the scientific method for formal investigation and to demonstrate competency with experimental methods that are used to discover and verify the concepts related to content knowledge.
- Baccalaureate graduates will demonstrate skills necessary for conducting geological investigations and research related to content knowledge and laboratory skills.
- Baccalaureate graduates will be employed in a geology related job or enrolled in a graduate program.
- Baccalaureate graduates will have acquired the ability to effectively conduct geological investigations.

- Baccalaureate graduates will be able to produce and present oral and written communication (including graphs, maps, stratigraphic sections, geological cross sections, and subsurface diagrams) of activities associated with the discipline.