

DEPARTMENT OF GEOLOGY PROGRAM LEARNING OBJECTIVES

B.S. GEOLOGY

1. Develop the skill to read and accurately interpret topographic maps.
2. Effectively communicate scientific ideas and results in writing.
3. Use the fundamentals of chemistry, physics, and math to solve geologic problems.
4. Classify and identify geological materials, such as, minerals, rocks, and fossils, and understand their relationships to each other and interacting earth systems.
5. Visualize and comprehend geologic structures and processes.
6. Understand how geologists measure deep time and reconstruct earth history.

M.S. GEOLOGY

1. Formulate scientifically sound and logistically reasonable plans for solving geologic problems.
2. Apply the appropriate techniques to acquire and interpret data to arrive at scientifically sound conclusions.
3. Demonstrate scientific writing of acceptable quality.
4. Demonstrate the ability to present results of scientific research in oral format.