

Geological Sciences, BS

Geological Sciences Program Learning Outcomes

At the successful completion of this program, students will be able to:

1. Apply the scientific method to test hypotheses and interpretations.
2. Apply the concepts of both stratigraphic (relative) and radiometric geologic dating to interpret physical and biological events in Earth history vis-à-vis geologic processes, biological evolution, and/or natural and anthropogenic landscape and climate change.
3. Analyze the record of Earth surface processes from geologic and geographic landforms and assess geologic hazards.
4. Identify economically important Earth materials, predict their locations based on geologic data, and discuss their role in society and the global economy.
5. Analyze the important and diverse effects of plate tectonics and related physical and chemical processes in shaping Earth structure, history, resources, and hazards.