



# SHSU KATFACTS

BEST .....  
COLLEGES  
..... FOR THE  
**MONEY**

OVER  
**EIGHTY**  
UNDERGRADUATE  
DEGREES & COUNTING

FACULTY  
--- TO ---  
STUDENT  
RATIO  
**1:25**

MORE THAN  
**230**  
STUDENT  
ORGANIZATIONS

**COMMUNITY ENGAGED**  
UNIVERSITY

Other degrees offered through the  
Department of Geography & Geology:

- Geography
  - Human Geography, BA & BS
  - Environmental Geography, BA & BS
  - Geo-spatial Information Sciences, BS
- Composite Science-Geology Concentration, BS

Sam Houston State University

Department of Geography and Geology  
Box 2148 | Huntsville, TX 77341-2148

shsu.edu/geology  
1-866-BEARKAT



# GEOLOGY

Bachelor of Science



[shsu.edu/geology](http://shsu.edu/geology)

**SAM HOUSTON STATE UNIVERSITY**

MEMBER THE TEXAS STATE UNIVERSITY SYSTEM



**GEOLOGY**

[shsu.edu/geology](http://shsu.edu/geology)

## POSSIBLE CAREERS FOR GEOLOGY MAJORS

- Environmental Industry
- Petroleum Industry
- Education
- Government
- Nonprofit

## BACHELOR'S DEGREE IN GEOLOGY

The Bachelor of Science in geology from Sam Houston State University offers students two degree options, hands-on lab and field work experience, and research opportunities.

Geology is the ultimate integrated science because all of the principles and methods of the other sciences, as well as geologic principles and methods, are applied to an understanding of the earth. Geologists study rocks, of course, but they study them from the context of providing information that may eventually be used to forecast earthquakes, volcanic eruptions, and other geological hazards. The information obtained may also be applied to help geologists locate various natural resources. Therefore, geology serves to enhance human existence by attempting to reduce risk and by providing the materials necessary for the expansion of civilization.

The geology degree is designed for students seeking a position in industry or planning to attend graduate school. The geoscience plan is designed for students with a general interest in geology.

## REQUIREMENTS

All geology majors are required to take 8 hours of chemistry, 8 hours of physics, and 7-8 hours of mathematics.

**Minor:** Geology majors must choose a minor of at least 18 hours. Suggested minors include computer science, geography, geographic information systems, mathematics, or other sciences.

## SCHOLARSHIPS HIGHLIGHTS

Once accepted, students may apply for relevant scholarships by completing the Scholarships4Kats online application. Transfer scholarships are available for students who would like to continue their academic career at Sam Houston State University.

The department places considerable emphasis on lab-based analytical science and analysis conducted by means of field work. In support, the department maintains a range of field and laboratory equipment including an X-ray diffraction lab, a scanning electron microscope (SEM), polarizing microscopes, a Cold Cathodo-Luminescence microscope, a Mackereth coring system, a vibracorer, a research flume, a portable XRF, plus a variety of GPS and GIS-linked surveying equipment. Many of our students obtain internships and work with faculty members on research projects.