

SRSU @ MC

Sul Ross State University has a co-operative agreement with Midland College. Midland courses can be applied towards a BS in Geology through Sul Ross. Students living in Midland can get their advanced classes from Sul Ross through two-way interactive video to the Midland College campus.

All freshman- and sophomore-level classes are taken at MC in a traditional or web format and junior- and senior-level classes are presented on the MC campus via live televised lectures by SR faculty. The laboratory portion of the course is taught at MC by MC faculty.

The MC campus contact is Lady Jenna Carey, SR Transfer Specialist, 432-685-6454 or jcarey@sulross.edu.

Geology as a Miner (minor ... that's a joke, son)

Most degrees at Sul Ross require a minor field of study which is 18 to 21 hours of concentration in a field different from your major field of study. The Geology minor consists of 18 hours:

- 4 hrs Physical Geo OR Environmental Geo
- 4 hrs Historical Geology
- 3 or 4 hrs Lithology or Petrology
- 7 or 6 hrs 3000- and/or 4000-level courses

Show Me the Money! aka Financial Aid

The Program has a variety of geology specific scholarships. There are a very limited number of work-study hours in the Program.

There are also university scholarships, grants and loans as well as other work-study jobs around campus.

For help, please contact the financial aid folks in the Center for Enrollment Services:

fa@sulross.edu

www.sulross.edu/page/106/financial-aid

or call 432-837-8050

We Love To Visit!

We think that if you come out for a visit you will become enchanted with the splendid high country of far west Texas and the small-town atmosphere of Alpine. To schedule a tour of our facilities, or for more information about the Geology Program, contact us:

By email: geology@sulross.edu

By traditional mail:

Geology Program
Department of Biology, Geology and Physical
Sciences
P.O. Box C-64, SRSU
Alpine, Texas 79832

By phone:

432-837-8112 (department office)

Or just drop by Warnock Science Building Room 214.



Take a virtual visit through our webpage and the university's webpage:

www.sulross.edu/secti

www.sulross.edu



**We are here ...
see you soon!**

Non-Discrimination Statement

No person shall be excluded from participation in, denied the benefits of, or be subjected to discrimination under, any program or activity sponsored by Sul Ross State University on any basis prohibited by applicable law, including, but not limited to race, color, national origin, religion, sex, age, or disability.

GEOLOGY

at
Sul Ross State
University



Located in the mountains of far west Texas, the Geology Program at Sul Ross is in an ideal locality for geologic studies. The university campus, surrounded by the Trans-Pecos volcanic field, is a half-hour drive from the famous Paleozoic sequence of the Marathon Basin and Glass Mountains, a two hour drive from Big Bend National Park and Big Bend Ranch State Park with their excellent Mesozoic sedimentary sequence and Cenozoic igneous sequence, and a two hour drive to the famous Permian units of Guadalupe Mountains National Park and Carlsbad Cavern National Park.



Rocks, Fossils and Water, Oh My!

The Geology Program utilizes the unique natural outdoor laboratory of west Texas. Igneous, sedimentary and metamorphic rocks, Precambrian to Cenozoic in age, are within a 100 mile radius of campus. This area also has evidence of most surficial geologic processes, except for glaciation. The Rio Grande River, and other rivers and springs, also occur in this region. Very few universities in the United States can claim such a diverse and accessible setting.



The Geology courses take advantage of this outdoor laboratory to give students the chance to work with, and study, geologic materials in their natural habitat, not just in the classroom. Every course has at least one field trip. Hands-on experience is emphasized, producing a valuable learning environment and a professional edge.

Four Degrees of Geology

★ **Bachelor of Science** degrees in:

- (1) **Geology** - basic geologic background for employment as a professional geologist or graduate study
- (2) **Earth Science for Teachers** - certification for elementary, middle and high school teaching careers
- (3) **Environmental Science with a Specialization in Geology** - preparation for dealing with complex relations between the land, sea and atmosphere and human activities

★ **Master of Science** degree in Geology

- (1) Thesis option
- (2) Non-thesis option

Undergraduate Need-To-Know Info

Required courses for the basic Geology BS degree:

Physical Geology	Historical Geology
Optical Mineralogy	Structural Geology
Stratigraphy and Sedimentation	
Field Geology	Sedimentary Petrology
Igneous & Metamorphic Petrology	

Geology undergraduates are also expected to take:

General Chemistry I	Physics I
General Chemistry II OR Physics II	
University Algebra	Trigonometry

Some of the Geology undergraduate electives:

Environmental Geology	Lithology
Geochemistry	Tectonics
Geology of West Texas	Geomorphology
Petroleum Geology	Ore Deposits
Interdisciplinary Geographic Information Systems	
Advanced Geographic Information Systems	
Geology of the National Parks	
Invertebrate Paleontology	
Groundwater Hydrology	

The undergraduate program is designed to provide a solid background in geology, basic physical science and math. It enables our graduates to enter any field of geology and be successful.

Graduate Need-To-Know Info

Some of the Geology classes offered for the MS degree are:

Advanced Paleontology	Carbonate Petrology
Advanced Sedimentation	Volcanology
Stratigraphic Analysis	Dynamic Stratigraphy
Aqueous Geochemistry	Remote Sensing
Interdisciplinary Geographic Information Systems	
Advanced Geographic Information Systems	
Statistics for Geologists	

Cool Stuff! aka Our Facilities

The Geology Program has a rock preparation lab with rock slab saws, lap wheels and thin sectioning machines; much of the equipment was purchased in 2014. The rock prep lab also has sediment sieves and a shaker. Two stream tables are housed in the program. The Petrography lab has Nikon petrographic microscopes (purchased in 2012) and binocular stereoscopes (purchased in 2011). There is a state-of-the-art GIS lab which was updated early in 2015 with new hardware and software. There is also a state-of-art Analytical lab with a Scanning Electron Microscope (purchased 2013), an XRF (purchased 2014) and XRD (purchased 2015). The program also has numerous GPS units and Brunton Compasses that are used in class exercises and that can also be checked out to students.

Geology also has numerous rafts, canoes, and camping equipment that is used for class trips, research and the summer Field Geology course.

High-Powered Research

Undergraduates are encouraged to do a junior-senior research project with Geology faculty. Some research projects have been, and may be, funded through Sul Ross's McNair Scholars Program. Other research has been funded through grants received by Geology faculty.

Graduates are encouraged to do the thesis option degree. Thesis projects have been done as far afield as Alaska and Nevada. Most thesis projects are done in Texas, and most of these are done in west Texas.

Get a Job! aka Career Opportunities with a Geology Degree

Archeologist	Climatologist	Hydrologist	Ecologist	Planetary Geologist	Marine Geologist	Volcanologist
Paleontologist	Mineralogist	Geochemist	Seismologist	Economic Geologist	Petroleum Geologist	
Renewable Energy	Space Science	Museum Curator	Soil Scientist	Remediation	Water Quality	
Oceanographer	Meteorology	Forester	Geographer	Oceanographer	Paleoclimatologist	Teacher