

## Career Opportunities

- ◆ **Medical**  
Physician, Dentist, Nurse, Physical Therapist, Radiologist, Dietician, Chiropractor, Veterinarian
- ◆ **Educational**  
Public/Private School Teacher, Administration
- ◆ **Ecological**  
Federal/State Agent, Warden/Ranger
- ◆ **Other**  
Museum Curator, Botanist, Zoo Technician  
Crime Lab Technician, Geneticist, Mortician  
Pathologist, Forensic Technician

## Degrees Offered

- ◆ **Bachelor of Science**  
Biology  
Biology with a Teaching Certification
- ◆ **Master of Science in Biology**  
Thesis Option  
Mini-Thesis Option  
Non-Thesis Option

## Field Trips

You will have a chance to spend many quality hours in the field because the Biology Department conducts numerous field trips. Past field trips have gone to:

- ◆ *Davis Mountains Preserve*
- ◆ *Pecos River Canyon*
- ◆ *Chisos Mountains; Big Bend National Park*
- ◆ *Big Bend Ranch State Park*
- ◆ *Guadalupe Mountains*
- ◆ *Sonora Desert; Chihuahuan Desert (CDRI)*



## Student Organizations are Fun

SRSU has a number of different departmental and campus organizations in which you can become involved.

In biology, we have the Biology Club and Beta Beta Beta. The Biology Club is open to all students interested in biology. The Epsilon Omega Chapter of Tri-Beta is the biology honor society. Membership requirements include completion of at least three biological science courses, one of which must be an upper level course, and a minimum grade point average of 3.0.



## Financial aid can help you

SRSU has a variety of programs to help you financially, including departmental scholarships, university scholarships, grants, loans, and on-campus jobs. For help in planning your financial future with us, give our Office of Financial Assistance and Recruiting a call at (432) 837-8055 or drop them a line at Box C-113, Alpine, TX 79832.

## For more information contact:

Christopher M. Ritz, Ph.D.  
Department of Biology, Geology,  
and Physical Sciences  
Sul Ross State University  
Box C-64  
Alpine, TX 79832  
(432) 837-8112

## Non-Discrimination Statement

No person shall be excluded from participation in, denied the benefits of, or be subject 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.

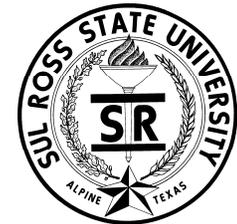
SUL ROSS STATE  
UNIVERSITY

Biology



The Warnock Science Building

Discover the  
Chihuahuan  
Desert



Sul Ross State University

*A Member of the Texas State University System*

Alpine, Texas

**About Sul Ross...**

Sul Ross State University, located in the beautiful Chihuahuan Desert region, offers you one of the best natural laboratories in the world in which to study biology.

The major orientation of our department is an organismal approach, emphasizing integrated ecological and coevolutionary studies of plants and animals through field work in the Chihuahuan Desert region. We also have integrated a modern molecular biology component to our program to enhance the student learning experience. Our programs provide broad training in most aspects of modern biology that will prepare all students for almost any advanced discipline including pre-medical and allied health areas. Because of the low student/faculty ratio, you will receive the individualized instruction and advisement you deserve.

Our biology faculty couples traditional classroom and laboratory methods with field work to give you a well rounded background in all areas of the biological sciences.

The Biology Faculty is broadly trained in botany, zoology, entomology, and microbiology. Our faculty have contributed considerably to research within these respective fields.

**Collections**

Sul Ross State University faculty and students have the opportunity to study in several collections boasting unique materials from the Chihuahuan Desert region. These include the A. Michael Powell Herbarium, the James F. Scudday Vertebrate Collection, and the Jim V. Richerson Invertebrate Collection.

The collections are primarily composed of specimens collected within the Trans-Pecos region of Texas, but also holds representatives from across the state and continent. The A. Michael Powell Herbarium, in particular, is recognized as the third largest herbarium in Texas.

**Field Courses in Biology**

Most of our upper-level courses in biology utilize field work in connection with laboratory studies. Some of the upper-level and graduate offerings are specialized field courses. These include six-hour courses in Entomology, Plant Taxonomy, Field Zoology, Field Botany, and Environmental Microbiology during summer terms. Most of the field training takes place within the northern Chihuahuan Desert region. In addition, trips are taken to other parts of Texas and the southwestern United States.

**Laboratories**

The laboratory facilities, in the forms of microbiology and molecular labs, offer a variety of learning opportunities in modern molecular techniques. Students have the ability to learn about PCR (DNA replication and amplification) and DNA sequencing, in addition to the molecular typing of antibiotic resistant bacterial strains.

**Native Plant Propagation and Greenhouses**

Since 1979, the Sul Ross Biology Program greenhouses have provided a venue for the propagation of Northern Chihuahuan Desert plants, the cultivation of plants for Botany related classes, and a facility for plant-related research. The focus of our Native Plant Propagation program has not only been the development of regional native plants for use in xeriscaping, but also as an educational tool to help facilitate awareness of the diversity of the plant communities in the Trans-Pecos Texas region. The greenhouses propagate a wide variety of plants including cacti and other succulents, grasses, trees, shrubs, and vines. Many of these have been grown for the campus cactus garden, which showcases Trans-Pecos Texas cacti and associated drought- and cold-tolerant plants that are worthy as ornamentals. Thousands of plants have also been grown at our facilities for habitat restoration projects in several of the National and State Parks in the surrounding area and for sale to the general public for landscaping purposes.