

College of
**Agriculture and
Natural Resources**
TARLETON STATE UNIVERSITY.



GREEKS
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WELCOME TO THE COLLEGE OF AGRICULTURE AND NATURAL RESOURCES

Agricultural science has been an intrinsic part of Tarleton State University since the university was founded in 1899 as John Tarleton Agricultural College. Times have certainly changed, but our tradition of agriculture is as strong as ever.

We believe in a hands-on approach that extends far beyond the classroom into laboratories, farms, ranches and the outdoors, giving students deep proficiency in skills that are directly applicable to their future careers. **The confidence they gain from this experience gives them extraordinary knowledge to make a difference** for farmers and ranchers, meat and dairy producers, and every corner of the world's diverse natural resources and agricultural industries.

The college is a close-knit community, bonded by a passion for our work and shared experiences. Upon graduation, our students go on to rewarding careers or professional school in animal science, agribusiness, agricultural education, agricultural communication, wildlife science, and horticulture. We are proud that their experiences at Tarleton will continue to shape those journeys.

Sincerely,

A handwritten signature in black ink that reads "Barry D. Lambert, Ph.D." in a cursive script.

Interim Dean of the College of Agriculture and Natural Resources



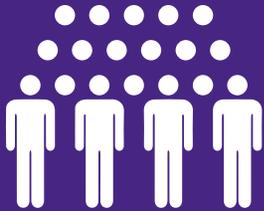
BRIEF OVERVIEW

Tarleton's College of Agriculture and Natural Resources enhances global agriculture and natural resources by delivering innovative experiential learning, promoting groundbreaking research and encouraging community and global service.

Students develop unparalleled knowledge across the spectrum of agricultural industries and natural resources, graduating with the skills to become successful consultants and practitioners whose insights help keep our world's essential food production and natural resource preservation strong.

More than 2,200 students attend classes in Stephenville and have access to state-of-the-art teaching laboratories, and hands-on learning, at the Tarleton Agricultural Center.

FACTS AT A GLANCE



The college hosts the largest FFA Invitational Career Development Event in the United States, with more than 9,000 students attending every year.

Tarleton boasts one of the largest

agricultural education and animal science programs in the country.



Tarleton ranks

second in Texas in the number of students majoring in agriculture and third nationally among non-land grant universities.

The college hosts

12 NATIONALLY

competitive intercollegiate judging teams.



Tarleton is the only university in Texas with a teaching and research dairy farm.

DEGREES

MAJORS AND CONCENTRATIONS

Agribusiness

Agribusiness Management
Agricultural Economics
Dairy Business Management
Personal/Small Business Financial Planning

Agricultural Communication

Agricultural Services and Development

Agricultural Science with Teaching Certification
Agri-Industries and Agencies
Interdisciplinary Agriculture

Animal Science

Animal Production
Business
Meat and Food Science
Pre-Veterinary Medicine
Range and Ranch Management
Science

Horticulture and Plant Sciences (Fall 2022)

Horticulture Business
Horticultural Management
Horticultural Science
Sustainable Agriculture & Agroecology

Wildlife, Sustainability and Ecosystem Sciences

Entomology
Fisheries Science
Natural Resource Ecology
Pre-Veterinary Medicine
Soil Science
Wildlife Science
Zoo Animal and Confined Wildlife Biology and Management

MINORS

Agribusiness
Agricultural Communication
Agricultural Mechanics
Agroecology
Animal Science
Crop Sciences
Entomology
Fisheries Management
Horticulture
Natural Resource Ecology
Plant Conservation
Range and Ranch Management
Soil Science
Wildlife Management

GRADUATE PROGRAMS

Agricultural and Consumer Resources

Agribusiness Non-Thesis
Agribusiness Thesis
Educator Certification
Leadership Non-Thesis
Leadership Thesis

Agricultural and Natural Resource Sciences

Professional (Non-Thesis) Track
Research (Thesis) Track

Agricultural Economics (Fall 2022)

Animal Science

Professional (Non-Thesis) Track
Research (Thesis) Track

SIGNATURE EVENTS

Each year the college hosts an **Honors Celebration** recognizing outstanding students, student organizations, judging teams, alumni, friends, faculty and staff.

Thousands of students from across Texas annually converge on campus for the **FFA Invitational Career Development Event**. The invitational event provides students the opportunity to prepare for team competition in a variety of contests, from farm business management to veterinary science.





HIGH-IMPACT PRACTICES

Study abroad

Developing a global perspective gives students the knowledge to be standouts in their field. From studying wildlife in southern Africa and the Iberian Peninsula to examining agribusiness in Peru and the Czech Republic, the college offers opportunities to study agriculture, wildlife and natural resources around the world.

Undergraduate research

Students in the college learn by doing, and opportunities for undergraduate research abound. In one laboratory, undergraduate students study alternative feed for cattle as a means to reduce waste. In others, students research deer and bobwhite quail populations, glaucoma treatments in pigs as a model for humans, and CBD oil to calm companion pets and horses.

At the Southwest Regional Dairy Center, students study dairy cow nutrition, reproduction and welfare. Other research opportunities include aquaponics, meats processing, horticulture and fire science.

Watch the Tarleton Quail Restoration Research Project: trln.info/QuailRestoration

Internships

Internships play an integral role in our learning by doing approach to education. Opportunities include working at national parks, agriculture-oriented media companies, farms, ranches, zoos, major livestock show and rodeo organizations, agriculture insurance companies, and many more.

DEPARTMENTS

Agricultural Education and Communication provides a top-quality educational foundation in agriculture that gives students the knowledge to succeed in agricultural education, communication and business. Students are motivated to become lifelong learners who advance the field of agriculture.

Animal Science prepares students for successful careers with engaging classroom instruction, hands-on experience and industry interaction. The department provides cutting-edge animal science programs to meet the diverse needs of producers, scientists and consumers.

Wildlife and Natural Resources trains students to work in the diverse and rapidly evolving natural resources field. Emphasis is placed on strong student engagement throughout the learning process.

PARTNERSHIPS WITH STUDENT ORGANIZATIONS

The college is proud to partner with student organizations, which help students develop the knowledge and leadership to succeed.

CLUBS

Block and Bridle is an agricultural organization focused on building leadership in the Tarleton and Stephenville communities as well as the agricultural community.

The **Dairy Club** promotes the dairy industry on campus and in the community while helping students network with industry leaders.

The **Tarleton Agribusiness Club** is dedicated to preparing students for careers in agribusiness.

Agricultural Communicators of Tomorrow promotes professional development for students who want to be the voice of agriculture.

Tarleton Collegiate FFA provides a platform for professional development and networking for students.

The **Tarleton Agricultural Mechanics Club** is a group of ag enthusiasts seeking to educate and provide opportunities for students to engage in the Ag Mechanics Industry.

The **Collegiate Horseman's Association** is for horse oriented students to improve their horsemanship skills, training abilities and showmanship.

The **Pre-Veterinary Medical Association** provides student volunteers with opportunities to work with experienced local veterinarians. The **Horticulture Club** is service oriented and dedicated to providing horticulture-related educational programming in a social and informative manner.

The Tarleton Student Chapter of the **Wildlife Society** represents professionals and students dedicated to the sustainable management of wildlife resources and their habitats. Teams include Wildlife Quiz Bowl and Plant ID.

The Tarleton Subunit of the **American Fisheries Society** is dedicated to strengthening the fisheries profession, advancing fisheries science and conserving fisheries resources.

Entomological Society members grow their knowledge of entomology through activities and networking opportunities.

The **Texas Master Naturalist** organization is a corps of well-informed volunteers that provide education, outreach and service dedicated to the natural resources and natural areas within their community and Texas.

The **Texas Gamma chapter of Alpha Zeta** is a nation-wide agriculture honors society, that is involved in on campus activities including professional development trainings and farm-related seasonal sales.

The **COANR Ambassadors** are a select group of students across all majors that apply and interview to be the face of the college. They can be seen at multiple events and may have visited a high school near you.

The **Student Leadership Council** allows all clubs, teams, and organizations to hear representation and to communicate needs in the college. Students receive leadership training at each meeting and represent the college at events such as National Ag Awareness Day, recruiting at FFA events, and hosting alumni and friends.

Student Academic Mentors (SAMs) serve as peer mentors and leaders for first-year students in WNR department organizing activities, encouraging study skills and healthy well-being, and promote student involvement.

TEAMS

Students at all riding levels belong to the **Equestrian Team**, which competes in the Intercollegiate Horse Show Association.

The **Livestock Judging Team** teaches students about cattle, sheep, goat and swine evaluation while enhancing decision-making and communication skills.

The **Meats Judging Team** participates in competitions around the country and provides a platform for students to network with industry leaders.

The **Stock Horse Team** bolsters horsemanship skills, training abilities and showmanship through clinics, practice and competitions.

Participants in the **Academic Quadrathlon** test their agriculture knowledge in a quiz bowl, including a written exam, lab practicum and oral presentations.

Dairy Cattle Judging Team members evaluate classes of dairy cows and heifers at competitions held nation-wide.

Dairy Challenge Team members compete by evaluating dairy procedures and propose solutions to improve operations.

Horse Judging Team participants evaluate classes of horses based on conformation and performance.

Soils Judging Team members test their knowledge in identifying, evaluating, classifying and describing soil profiles.

Wool Judging Team members evaluate wool fleeces for fineness, length and yield, rank fleeces within a group.



UNIQUE OPPORTUNITIES FOR HANDS-ON LEARNING

Agricultural Center

The Agricultural Center, just minutes from campus, is situated on the banks of the Bosque River. The Tarleton Ag Center provides a unique educational and research field laboratory for students in the agriculture and natural resources. The Center has over a mile of Bosque River frontage and several hundred acres of native bottomland and upland habitats. Combined with numerous new, state-of-the-art teaching laboratories, hands-on learning is literally at the students' fingertips, with many laboratory courses designed around a mix of classroom and field activities. Students apply knowledge from the classroom to gain an in-depth understanding of research, agricultural techniques and sales.

The Ag Center offers academically progressive curricula and diverse instructional laboratory experiences that represent the current agricultural industry and compliments classroom teaching. Students work and learn with horses, beef cattle, dairy cattle, sheep, goats, swine, rabbits and aquaculture. Engage with our faculty in our greenhouses, animal and plant sciences labs, retail center, agriculture mechanics facility, equine center, meat lab and dairy.

Agricultural Field Machinery and Fabrication Laboratory

The Agricultural Field Machinery & Fabrication Laboratory building houses three state-of-the-art laboratories for metal fabrication and welding, agricultural power and farm machinery, and construction. Each laboratory is furnished with the necessary tools and equipment to provide our students with hands-on learning opportunities in a real-world setting. The facility also includes a dedicated computer lab, three classrooms, and a large multi-purpose space for hosting workshops, meetings or other activities.

Animal and Plant Sciences Center

The newly opened Animal and Plant Sciences Center features six state-of-the-art teaching laboratories, covered livestock working area with arenas, four greenhouses and a retail merchandizing lab. The complex enables Tarleton to develop courses to meet the diverse needs of agricultural industries in Texas and beyond.

The Purple Tractor

The Purple Tractor is a merchandising teaching laboratory that gives students the knowledge to produce and market agricultural products, including fresh and frozen meats, vegetables and nursery plants. All products are developed and grown by Tarleton students in classrooms, greenhouses, barns and fields. Proceeds help recoup teaching expenses at the Agricultural Center, enhancing the student experience.

Tarleton Meat Lab

Operated largely by students, the Meat Lab is a state-inspected meat processing facility that offers real-world experience in the agriculture industry.

Equine Center

The Equine Center covers 75 acres and includes an indoor arena, breeding barn complex, stallion barn, classroom and pastures. The Center is home to approximately 50 horses including class horses, breeding mares and stallions, and their offspring.

Aquaponics Center

The Aquaponics Center includes aquaponics and hydroponics systems. The aquaponics system has a 1,750 gallon tank stocked with

Mozambique tilapia, a 350 gallon tank stocked with channel catfish, and a 75 gallon tilapia brood tank. The fish water is recirculated under three 4 foot x 8 foot rafts and several towers where leafy plants use the nutrients in the fish water before the water is returned to the fish tanks. Solid waste filtered from the fish tanks is used to nourish fresh tiger prawns in a 950 gallon tank.

Southwest Dairy Regional Center

The Southwest Regional Dairy Center is a working dairy that services approximately 300 cows. The dairy provides support for teaching, research and outreach programs to meet the needs of the dairy industry. Students have the opportunity to engage in research projects and assist with the maintenance of a working dairy.

Watch this video about dairy: trltn.info/DairyIndustry

Tarleton Rabbitry

The Tarleton Rabbitry is a research-funded, student-supported livestock enterprise at the Tarleton Agricultural Center. The Rabbitry currently houses 80 animals including breeding does, breeding bucks, and kits (born monthly). Throughout the year, the Rabbitry sells animals as pets, breeding animals, or stock for 4-H and FFA livestock shows. The barn operates as sustainable as possible by composting all manure and bedding marketed to the community for lawns and gardens.

Tarleton Equine Assisted Therapeutic Riding (TREAT)

Animal science students help run Tarleton Equine Assisted Therapeutic Riding, or TREAT, a program that uses horseback riding as therapy. Clients have a variety of conditions and disabilities, such as cerebral palsy, autism, spina bifida, developmental delays, head injuries and scoliosis.

TREAT improves self-confidence, self-awareness and discipline while building fine motor skills, posture, balance and coordination.

Watch TREAT video: trltn.info/TREATRiding

Sheep and Goats

Tarleton's small ruminant inventory consists of a commercial medium wool flock, dorper flock, and high percentage Boer goat herd. These animals are available for student classroom activities, judging contests/clinics, and research. Students have the opportunity to work with these animals using industry production practices. This brings classroom theory to the real world.

Beef Cattle

The beef cattle herd consists of approximately 75 head, split into fall and spring calving herds. The cows are predominantly Angus crossbred females, with a few other crosses, to show variation in breed influence to students. The cow herd is used heavily for teaching and research purposes. Students are engaged during the management of the cows through class settings, providing them real world experiences that can demonstrate production practices. Students have the opportunity to perform and observe every aspect of production, from vaccination through breeding and pregnancy diagnosis, replacement selection, heifer development and marketing.



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NORTH DAKOTA ASSOCIATION
ILLINOIS ASSOCIATION
WYOMING ASSOCIATION
OHIO ASSOCIATION
UTAH ASSOCIATION
FLORIDA ASSOCIATION
OREGON ASSOCIATION
TEXAS ASSOCIATION

MISSOURI MARSHAL ASSOCIATION
VIRGINIA ASSOCIATION
NEW JERSEY ASSOCIATION
COLORADO ASSOCIATION
ARKANSAS ASSOCIATION
NEW MEXICO ASSOCIATION
WISCONSIN ASSOCIATION
MISSISSIPPI ASSOCIATION
MONTANA ASSOCIATION
MARYLAND ASSOCIATION
TENNESSEE ASSOCIATION
NEW HAMPSHIRE ASSOCIATION
NEW YORK ASSOCIATION
DELAWARE ASSOCIATION
MICHIGAN MASON ASSOCIATION
INDIANA ASSOCIATION
MINNESOTA ASSOCIATION
ALABAMA ASSOCIATION
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NEBRASKA ASSOCIATION
KANSAS ASSOCIATION
IOWA ASSOCIATION

SOUTH CAROLINA ASSOCIATION
SOUTH DAKOTA ASSOCIATION
OKLAHOMA ASSOCIATION
NORTH CAROLINA ASSOCIATION
KENTUCKY ASSOCIATION
CONNECTICUT ASSOCIATION

WHAT OUR STUDENTS SAY

“The college has provided me many opportunities to excel in the wildlife field. I even researched mesopredators and the bison population at a Texas state park and presented my research at national conferences. The college is small enough to allow one-on-one interactions with professors but not too small to provide incredible research opportunities.”

— Cody Carter, wildlife science major, Class of 2021

“Professors really engage with the students in classrooms and labs, which makes it easier to learn the material. I truly believe my time in the college will prepare me to teach students of my own. I have gained a passion for all aspects of agriculture. I absolutely would recommend the college to anyone.”

— Katie Wyatt, agricultural services and development major

with teaching certification, Class of 2023



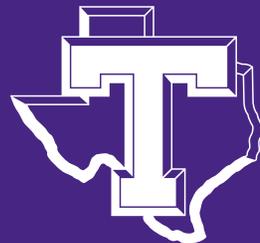
TAKE A VIRTUAL CAMPUS TOUR!

tarleton.edu/welcome/virtual-tours.html

FIND MORE INFORMATION

about the College of Agriculture and Natural Resources

tarleton.edu/COANR



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