COLLEGE OF AGRICULTURE AND LIFE SCIENCES

Administrative Officers
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Executive Associate Dean - Patricia E. Klein, PhD
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Associate Dean for Faculty Affairs - X. Ben Wu, PhD
Assistant Dean for Student Success - Jenna Kurten, PhD

General Statement
The College of Agriculture and Life Sciences is widely recognized as a leader in the academic programs offered by its departments. The students we educate and the scientific advancements we make and share improve the lives of Texans and people around the world through agriculture. Our faculty members and students are breeding crops to help conserve water, unlocking genetic mysteries to cure diseases, fostering best practices in environmental stewardship, and improving the safety, healthfulness, and abundance of the world’s food supply. Through innovative curricula, we prepare students for careers as scientists, business leaders, engineers, educators, physicians, affiliated health professionals, sales representatives, and other professionals.

Our academic programs focus on high-impact learning experiences and the science, technology, engineering, and math (STEM) courses that prepare students for a variety of careers. Students gain technical expertise, learn to think creatively and critically, solve problems, make decisions, communicate effectively, and learn how to work effectively with people of varied backgrounds. Faculty members who teach undergraduate classes include many who are recognized nationally and internationally for research and other accomplishments in their disciplines. Undergraduates also have opportunities to participate in research themselves.

All students are encouraged to participate in at least three high-impact experiences before graduation, such as undergraduate research, field study, an internship, or international experience. The college has study abroad programs in the Americas, Asia, Europe, Oceania, Africa, and the Caribbean. Honors programs are available in many of the college’s academic departments. There are numerous student organizations that are sponsored by departments or the college such as the Future Agricultural and Life Science Leaders and the College of Agriculture and Life Sciences Student Council. These organizations promote interaction among students who share interests and foster leadership skills.

The College of Agriculture and Life Sciences and its departments offer a variety of scholarships to students on a competitive basis. Many are reserved for incoming freshmen or transfer students. Additional information and application forms for college-level scholarships for current students can be obtained from the Scholarships & Financial Aid Office. Information about departmental scholarships can be obtained from the departments directly.

College of Agriculture and Life Sciences
Baccalaureate Degree Programs
Each major can be arranged to prepare students for graduate study or admission to professional schools in medicine, dentistry, veterinary medicine, other health professions, and law. Students in programs, such as biochemistry, genetics, and nutritional sciences, are highly recruited for medicine, nursing, and other health professions. Animal science and wildlife and fisheries sciences are among several excellent choices for students interested in veterinary medicine. Students with a background in natural resources, the agricultural industry, forensics, or life sciences can use that knowledge to their advantage if they choose to enter law school. An environmental lawyer with a degree in a natural resource area is better equipped to incorporate the science with the law.

Advising is provided for each student in the college through advising centers based on academic discipline. Professional advisors assist with course selection and other academic issues. Along with departmental faculty, our academic advisors also serve as mentors for career planning and admission to graduate or professional school. Advisors serve as professional consultants for students in the College with the objective of avoiding problems if possible and solving problems if needed.

Requirements for Graduation
Requirements for graduation are listed in the Texas A&M University Student Rules and this catalog. With the exception of general elective requirements, courses taken to satisfy degree requirements must be taken for letter grades.

Internships
Internships provide real-world experience in industries related to a student’s education and professional career preparation. Students return to campus with a broader perspective and more intense interest in their education. The experiences are so valuable that many students complete more than one internship. Most departments in the College offer academic credit for the satisfactory completion of an internship. In fact, an internship is required for graduation in some degree programs.

The Agricultural and Natural Resources Policy (ANRP) Internship Program places students from the College of Agriculture and Life Sciences in policy-based internships in Austin, TX, Washington, D.C. and Rome, Italy for a semester or summer. Selection for the program is based upon factors such as academic performance, leadership, and a student’s general interest in learning the policy process.

Graduate Study
All departments in the College of Agriculture and Life Sciences offer graduate degrees at the masters and doctoral levels. Many departments offer courses and programs online.

Students are encouraged to contact the department in which they wish to obtain information about graduate study. Information on admission, programs available, etc., can be found in the Texas A&M University Graduate and Professional Catalog.

Teacher Certification
Texas teacher certification in agricultural science is available through the Department of Agricultural Leadership, Education, and Communications.
Certification is granted through the State Board of Educator Certification (SBEC) upon a student’s completion of the course of study administered by the department. The undergraduate major in agricultural science includes all coursework required for teacher certification. The requirements can be completed with any major in the College of Agriculture and Life Sciences. See an advisor in Agricultural Science, Department of Agricultural Leadership, Education, and Communications, for more information.

**Majors**

**Department of Agricultural Economics**

- Bachelor of Science in Agribusiness ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-economics/agribusiness-bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-economics/agribusiness-bs/))
- Bachelor of Science in Agricultural Economics and Master of Public Service and Administration, 5-Year Degree Program ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-economics/bs-mpsa/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-economics/bs-mpsa/))

**Department of Agricultural Leadership, Education, and Communications**

- Bachelor of Science in Agricultural Communications and Journalism ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-leadership-education-communications/journalism-bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-leadership-education-communications/journalism-bs/))

**Department of Animal Science**


**Department of Biochemistry and Biophysics**

- Bachelor of Science in Biochemistry ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biochemistry-biophysics/biochemistry-bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biochemistry-biophysics/biochemistry-bs/))
- Bachelor of Science in Genetics ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biochemistry-biophysics/genetics-bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biochemistry-biophysics/genetics-bs/))

**Department of Biological and Agricultural Engineering**

- Bachelor of Science in Biological and Agricultural Engineering ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/biological-agricultural-engineering/bs/)) — offered in conjunction with the College of Engineering

**Department of Ecology and Conservation Biology**


**Department of Entomology**

- Bachelor of Science in Entomology ([http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/entomology/bs/](http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/entomology/bs/))
Department of Food Science and Technology

- Bachelor of Science in Food Science and Technology, Food Industry Option (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/food-science-and-technology/food-science-technology-food-industry-bs-option/)
- Bachelor of Science in Food Science and Technology, Food Science Option (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/food-science-and-technology/food-science-technology-food-science-bs-option/)
- Bachelor of Science in Food Systems Industry Management (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/food-science-and-technology/food-systems-industry-management-bs/)

Department of Horticultural Sciences

- Bachelor of Arts in Horticulture (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/horticultural-sciences/horticulture-ba/)
- Bachelor of Science in Horticulture (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/horticultural-sciences/horticulture-bs/)

Department of Hospitality, Hotel Management and Tourism

- Bachelor of Science in Hospitality, Hotel Management and Tourism, Business Hospitality Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/hospitality-hotel-management-tourism/bs-business-hospitality-track/)
- Bachelor of Science in Hospitality, Hotel Management and Tourism, Event, Tourism and Recreation Management Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/hospitality-hotel-management-tourism/bs-event-tourism-recreation-management-track/)
- Bachelor of Science in Hospitality, Hotel Management and Tourism, Hospitality and Hotel Management Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/hospitality-hotel-management-tourism/bs-hospitality-hotel-management-track/)

Department of Nutrition

- Bachelor of Science in Nutrition, Didactic Program in Dietetics Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/nutrition/nutrition-bs-didactic-dietetics-track/)
- Bachelor of Science in Nutrition, General Nutrition Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/nutrition/nutrition-bs-general-nutrition-track/)
- Bachelor of Science in Nutrition, Molecular and Experimental Track (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/nutrition/nutrition-bs-molecular-experimental-track/)

Department of Plant Pathology and Microbiology

- Bachelor of Science in Bioenvironmental Sciences (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/plant-pathology-microbiology/bioenvironmental-sciences-bs/)

Department of Poultry Science

- Bachelor of Science in Poultry Science, Industry Emphasis (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/poultry-science/industry-bs-emphasis/)
- Bachelor of Science in Poultry Science, Technical Emphasis (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/poultry-science/technical-bs-emphasis/)

Department of Rangeland, Wildlife and Fisheries Management

- Bachelor of Science in Rangeland, Wildlife and Fisheries Management, Aquaculture and Fisheries Management and Master of Public Service Administration, 5-Year Degree Program (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/rangeland-wildlife-and-fisheries-management/bs-wfsc-mps/)

Department of Soil and Crop Sciences

- Bachelor of Science in Plant and Environmental Soil Science, Crops Emphasis (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/soil-crop-sciences/plant-environmental-soil-science-crops-bs-emphasis/)
- Bachelor of Science in Plant and Environmental Soil Science, Soil and Water Emphasis (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/soil-crop-sciences/plant-environmental-soil-science-soil-water-bs-emphasis/)
- Bachelor of Science in Turfgrass Science (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/soil-crop-sciences/turfgrass-science-bs/)

Minors

College of Agriculture and Life Sciences

- Financial Planning Minor (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/financial-planning-minor/)

Department of Agricultural Economics

- Agribusiness Entrepreneurship Minor
- Agricultural Economics Minor (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/agricultural-economics-minor/)
Department of Horticultural Sciences

Department of Entomology

Department of Biology

Department of Ecology and Conservation

Department of Engineering

Department of Biological and Agricultural Biophysics

Department of Biochemistry and Biophysics

Department of Agricultural Leadership, Education, and Communications

Department of Rangeland, Wildlife and Fisheries Management

Department of Poultry Science

Department of Soil and Crop Sciences

Department of Hospitality, Hotel Management and Tourism

Department of Plant Pathology and Microbiology

Certificates

College of Agriculture and Life Sciences

Department of Agricultural Economics

Department of Animal Science
Department of Entomology
- Public Health Entomology Certificate (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/entomology/public-health-entomology-certificate/)

Department of Food Science and Technology

Department of Horticultural Sciences
- Floral Design Certificate (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/horticultural-sciences/floral-design-certificate/)
- Landscape Management Certificate (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/horticultural-sciences/landscape-management-certificate/)
- Viticulture and Enology Certificate (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/horticultural-sciences/viticulture-enology-certificate/)

Department of Hospitality, Hotel Management and Tourism
- Professional Event Management Certificate (http://catalog.tamu.edu/undergraduate/agriculture-life-sciences/hospitality-hotel-management-tourism/professional-event-management-certificate/)

Department of Rangeland, Wildlife, and Fisheries Management

Masters

Department of Agricultural Economics
- Master of Agriculture in Agricultural Economics (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/agricultural-economics/masters/)

Department of Agricultural Leadership, Education, and Communications
- Master of Science in Agricultural Leadership, Education, and Communications (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/agricultural-leadership-education-communications/ms/)
agriculture-life-sciences/biological-agricultural-engineering/systems-management-ms/)

- Master of Science in Biological and Agricultural Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/biological-agricultural-engineering/biological-agricultural-engineering-ms/)

**Department of Ecology and Conservation Biology**

- Master of Science in Ecology and Conservation Biology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/ecology-and-conservation-biology/ms/)

**Department of Entomology**

- Master of Science in Entomology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/entomology/ms/)

**Department of Food Science and Technology**

- Master of Agriculture in Food Science and Technology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/food-science-and-technology/food-science-and-technology/ms/)
- Master of Science in Food Science and Technology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/food-science-and-technology/food-science-and-technology/ms/)

**Department of Horticultural Sciences**

- Master of Agriculture in Horticulture (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/horticultural-sciences/horticulture/ms/)
- Master of Science in Horticulture (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/horticultural-sciences/horticulture-ms/)
- Master of Science in Plant Breeding (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/horticultural-sciences/plant-breeding/ms/)

**Department of Hospitality, Hotel Management and Tourism**

- Master of Science in Hospitality, Hotel Management and Tourism (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/hospitality-hotel-management-tourism/ms/)

**Department of Nutrition**

- Master of Clinical Nutrition in Clinical Nutrition (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/nutrition/combined-ms-nutr-ms-kine/)
- Master of Science in Nutrition (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/nutrition/nutrition-ms/)
- Master of Science in Nutrition and Master of Science in Kinesiology Combined Degree Program (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/nutrition/combined-ms-nutr-ms-kine/)

**Department of Plant Pathology and Microbiology**

- Master of Science in Plant Pathology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/plant-pathology-microbiology/ms/)

**Department of Poultry Science**

- Master of Agriculture in Poultry Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/poultry-science/magr/)
- Master of Science in Poultry Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/poultry-science/ms/)

**Department of Rangeland, Wildlife and Fisheries Management**

- Master of Natural Resources Development in Natural Resources Development (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/rangeland-wildlife-and-fisheries-management/mrsc/)
- Master of Science in Rangeland, Wildlife and Fisheries Management (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/rangeland-wildlife-and-fisheries-management/ms/)

**Department of Soil and Crop Sciences**

- Master of Science in Agronomy (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/agronomy-ms/)
- Master of Science in Plant Breeding (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/plant-breeding-ms/)
- Master of Science in Soil Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/soil-science-ms/)

**Doctoral**

**Department of Agricultural Economics**

- Doctor of Philosophy in Agricultural Economics (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/agricultural-economics/phd/)

**Department of Agricultural Leadership, Education, and Communications**

- Doctor of Education in Agricultural Education (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/agricultural-leadership-education-communications/edd/)
• Doctor of Philosophy in Agricultural Leadership, Education, and Communication (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/agricultural-leadership-education-communications/phd/)

Department of Animal Science
• Doctor of Philosophy in Animal Breeding (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/animal-science/animal-breeding-phd/)
• Doctor of Philosophy in Animal Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/animal-science/phd/)
• Doctor of Philosophy in Physiology of Reproduction (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/animal-science/physiology-reproduction/phd/)

Department of Biochemistry and Biophysics
• Doctor of Philosophy in Biochemistry (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/biochemistry-biophysics/phd/)

Department of Biological and Agricultural Engineering
• Doctor of Philosophy in Biological and Agricultural Engineering (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/biological-agricultural-engineering/phd/)

Department of Ecology and Conservation Biology
• Doctor of Philosophy in Ecology and Conservation Biology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/ecology-and-conservation-biology/phd/)

Department of Entomology
• Doctor of Philosophy in Entomology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/entomology/phd/)

Department of Food Science and Technology
• Doctor of Philosophy in Food Science and Technology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/food-science-and-technology/food-science-technology/phd/)

Department of Horticultural Sciences
• Doctor of Philosophy in Horticulture (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/horticultural-sciences/horticulture/phd/)
• Doctor of Philosophy in Plant Breeding (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/horticultural-sciences/plant-breeding/phd/)

Department of Hospitality, Hotel Management and Tourism
• Doctor of Philosophy in Hospitality, Hotel Management and Tourism (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/hospitality-hotel-management-tourism/phd/)

Department of Nutrition
• Doctor of Philosophy in Nutrition (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/nutrition/nutrition-phd/)

Department of Plant Pathology and Microbiology
• Doctor of Philosophy in Plant Pathology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/plant-pathology-microbiology/phd/)

Department of Poultry Science
• Doctor of Philosophy in Poultry Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/poultry-science/phd/)

Department of Rangeland, Wildlife and Fisheries Management
• Doctor of Philosophy in Rangeland, Wildlife and Fisheries Management (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/rangeland-wildlife-and-fisheries-management/phd/)

Department of Soil and Crop Sciences
• Doctor of Philosophy in Agronomy (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/agronomy/phd/)
• Doctor of Philosophy in Plant Breeding (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/plant-breeding/phd/)
• Doctor of Philosophy in Soil Science (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/agriculture-life-sciences/soil-crop-sciences/soil-science/phd/)