

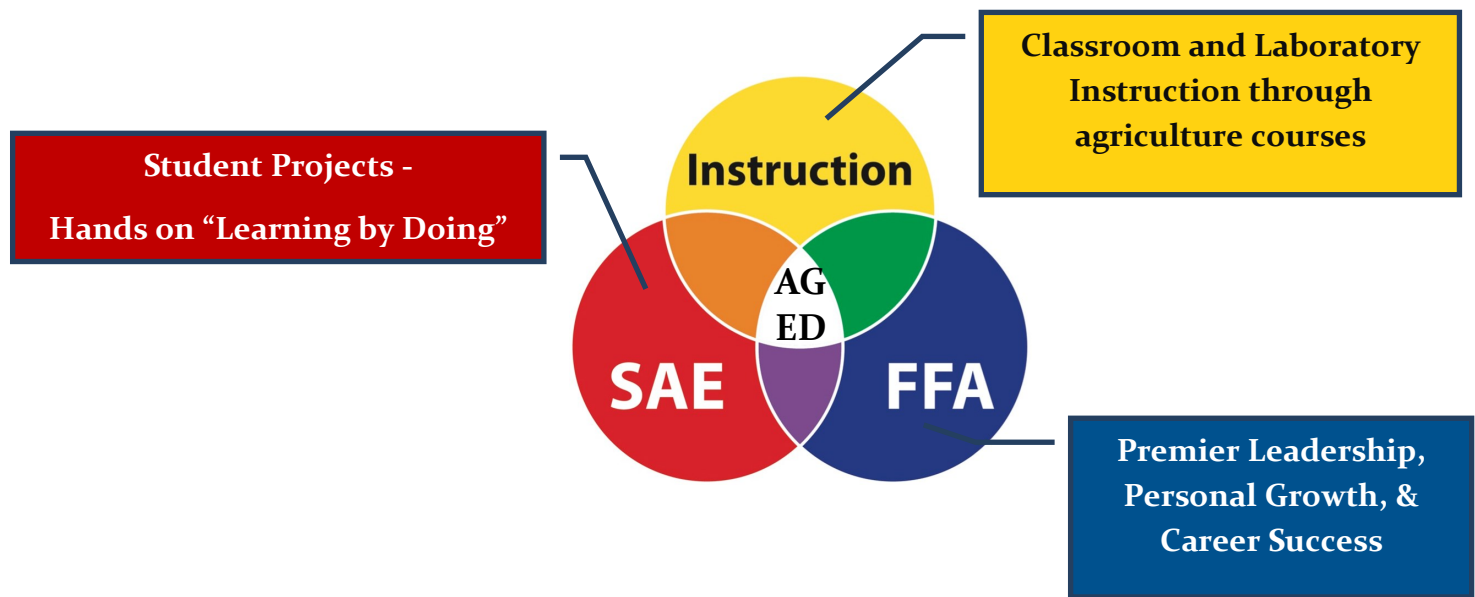


VETERANS MEMORIAL

***Agriculture Science
Department
&
FFA Chapter***



AGRICULTURE EDUCATION



Through agricultural education, students are provided opportunities for leadership development, personal growth and career success. Agricultural education is delivered through three major components:

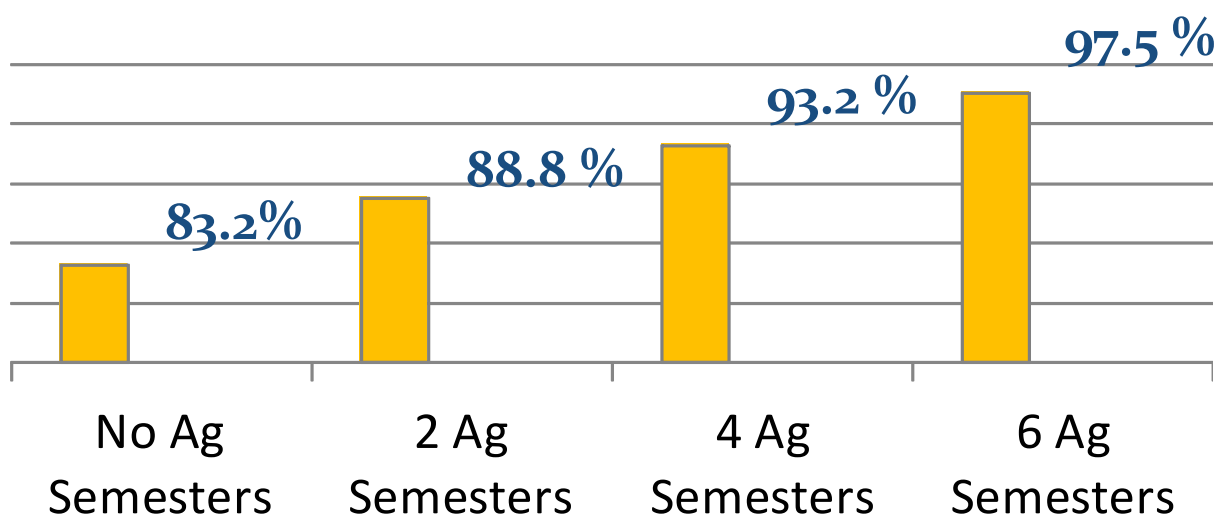
Classroom/Laboratory instruction

Supervised Agricultural Experiences

FFA—Student Leadership Organization

LEADERSHIP

STUDENTS WITH 2, 4, OR 6 SEMESTERS OF **AGRICULTURE EDUCATION** GRADUATE AT A HIGHER RATE THAN THEIR PEERS



COURSES WITH THE ATC LOGO ARE ELIGIBLE FOR ARTICULATED CREDIT.



ATC PROVIDES A PATHWAY FOR HIGH SCHOOL STUDENTS TO EARN CREDIT TOWARD A COLLEGE TECHNICAL CERTIFICATE OR DEGREE. ATC COURSES ARE OFFERED AT PUBLIC HIGH SCHOOLS IN TEXAS AND ARTICULATE TO COURSES AT TEXAS COMMUNITY AND TECHNICAL COLLEGES.

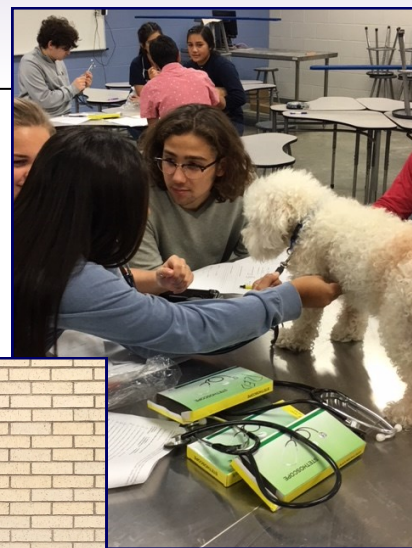
All students will start with the *Introduction Course* before selecting one of the three sequences

Course Name: *Principles of Agriculture, Food & Natural Resources* (1 credit)

Course Description: Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations to prepare for careers in agriculture, food, and natural resources.



Lab Activity: Checking Canine Vitals



Checking Canine heart rate



State Qualifying Vet Tech Team

Animal Science Sequence



Course Name: *Small Animal Management* (1/2 credit)

Course Description: To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested small animals which may be included in the course of study include, but not limited to, small animals, amphibians, reptiles, avian, dogs, and cats. Students are given the opportunity to develop leadership skills through the National FFA Organization.

Course Name: *Equine Science* (1/2 credit)

Course Description: In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.



Course Name: *Veterinary Medical Applications* (1 credit)

Course Description: Veterinary Medical Applications is a course suitable for students who have an interest in animals and the veterinary medical industry. Students will be exposed to a wide range of scientific principles, career opportunities, entry requirements, and industry expectations in the veterinary field.



Course Name: *Advanced Animal Science* (1 credit)

Course Description: Advanced Animal Science is a course suitable for students in grade 12. This is a science course and will have heavy emphasis on laboratory work. Students will be exposed to live animals in this course and are expected to act in a mature manner. Students will develop knowledge and skills pertaining to various scientific principles, current topics associated with animal rights/welfare, anatomy and physiology of multiple species of animals, animal nutrition, diseases, parasites and much more.

*****Counts as a Science Credit for Graduation Requirements**

Wildlife & Environmental Sequence



Course Name: *Wildlife, Fisheries, and Ecology Management* (1 credit)

Course Description: To be prepared for career in natural resources systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish and their ecological needs as related to current agricultural practices.



Course Name: *Range Ecology & Management* (1 credit)

Course Description: To be prepared for careers in environmental and natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

Course Name: *Advanced Plant & Soil Science* (1 credit)

Course Description: Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

******Counts as a Science Credit for Graduation Requirements***



Energy & Natural Resources Sequence



Course Name: *Energy & Natural Resources* (1 credit)

Course Description: Energy and Natural Resource Technology examines the interrelatedness of environmental issues and production agriculture. Students will evaluate the environmental benefits provided by sustainable resources and green technologies. Instruction is designed to allow for the application of science and technology to measure environmental impacts resulting from production agriculture through field and laboratory experiences. To prepare for careers in environmental service systems, students must attain academic skills and knowledge, acquire advanced technical knowledge and skills related to environmental service systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Course Name: *Oil & Gas I* (1 credit)

Course Description: In Oil and Gas Production I, students will identify specific career opportunities and skills, abilities, tools, certification, and safety measures associated with each career. Students will also understand components, systems, equipment, and production and safety regulations associated with oil and gas wells. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Course Name: *Oil & Gas II* (1 credit)

Course Description: In Oil and Gas Production II, students will gain knowledge of the specific requirements for entry into post-secondary education and employment in the petroleum industry; research and discuss petroleum economics; research and discuss the modes of transportation in the petroleum industry; research and discuss environmental, health, and safety concerns; research and discuss different energy sources; and prepare for industry certification. To prepare for careers in oil and gas production, students must attain academic skills and knowledge, acquire technical knowledge and skills related to oil and gas production and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

AGRICULTURE CAREERS

“8 reasons why Ag Careers are needed now more than ever.”

While agriculture is a multi-billion dollar industry that directly affects everyone in the world each day, employers still struggle to find qualified candidates that are enthusiastic about the industry and need. According to the USDA, ***“between 2010 and 2015 there will be more jobs available in Ag and food systems, renewable energy, and the environment than qualified graduates to fill them.”***

In 2015, there were ***56,000+ career opportunities but only 29,000 graduates*** who were trained to fill them, according to AgCareers.com.

So what were the top eight reasons why agricultural careers are so important? The article listed the following:

- 1. The population is increasing.***
- 2. There is a need for a “new” generation of agriculture.***
- 3. Agriculture is more diverse now than ever before, offering a wide variety of jobs available.***
- 4. There is a shortage of college graduates in agriculture.***
- 5. The industry is growing at a fast pace.***
- 6. Agricultural technologies are quickly advancing, creating new jobs.***
- 7. Salaries are increasing to keep people engaged in agricultural careers.***
- 8. Agricultural careers are rewarding.***

Youth Needed in U.S. Agriculture

The article boasted, “It is undeniable the agriculture industry is one of the smartest career paths to take. Whether you are looking for a company that you fit in with, a competitive salary, or you want to make a difference, ***the agricultural sector has such a wide variety of jobs*** to choose from that it’s easy to find what suits you best. It’s a growing field that needs new and talented employees to be ready to fill positions and be the next generation of agriculture.”

AGRICULTURE CAREERS

Agribusiness Management

focuses on the managerial functions performed by organizations throughout the food system. Sample job titles: Commodity Trader, Agricultural Production Specialist, Purchasing Manager, Financial Manager, Farm Owner and Manager, and Wholesale/Retail Buyer Manufacturing Manager. Companies that hire for these positions: Seneca Food Corporation, Ralston Purina Co., Farm Bureau Mutual Insurance, Archer-Daniels-Midland Co., and Dow Elanco.

Agricultural and Natural Resources Communications

focuses on careers in journalism, public relations, and advertising/marketing. Sample job titles: Marketing Communications Manager, District Sales Representatives, Advertising Manager, Reporter, Editor, and Account Manager. Companies that hire for these positions: Upjohn Co., USDA, Michigan Milk Producers Association, National Dairy Council, and Michigan Farm Bureau.

Building Construction Management

focuses on land development and structural buildings. Sample job titles: Project Manager, Estimator, Construction Scheduler, Controller, Purchasing Agent, Site Manager, Field Engineer, Land Developer, and Real Estate Appraiser. Companies that hire for these positions: Turner Construction Company, Pulte Homes, Perini Building Co., and General Motors Corporation.

Animal Science

Many students enter the animal science major with the intention of applying to schools of *veterinary medicine*. But Animal Science is also appropriate for other professional careers in research for animal science or becoming a doctor, nurse, dentist or physician assistant. Continuing on to graduate school to earn a master's degree or Ph.D. to become a researcher, scientist or professor after graduation is another option. This popular major is also appropriate for pre-health students on a medical, nursing, dental or physician's assistant track.

Veterinary Science

Every community needs veterinary professionals to provide animal health care, but veterinarians also do many other kinds of jobs. They make sure the nation's food supply is safe. They work to control the spread of diseases. They conduct research that helps both animals and humans. Veterinarians are at the forefront of protecting the public's health and welfare. Many veterinarians are engaged in work at the intersection of both human and animal health.

Resource Development and Management

focuses on policy analysis, planning, evaluation, budgeting, and program management. Sample job titles: Environmental Analyst, Environmental Planner, Solid Waste Coordinator, Water Resource Specialist, and Economic Development Specialist. Companies that hire for these positions: Cooperative Extension Service, The Clinton River Watershed, The National Park Service, Enviroscope, Senate and House Policy Offices, Lobbying Organizations, Banking Organizations, City and State governments, and Hospitals.

Parks, Recreation and Tourism Resources

focuses on planning and managing programs, areas, and facilities that are designed to meet people's leisure needs and enhance quality of life. Sample job titles: Park Ranger, Interpreter/Naturalist, Environmental Educator, Travel and Convention Planner, Youth Program Director, Camp Counselor, Park and Recreation Director, and Tourism Consultant. Companies that hire for these positions: Hilton and Marriott Resorts, Hospitals, YMCA, Golf Courses, Six Flags Great Adventure, and the Walt Disney Company.

AGRICULTURE CAREERS

Horticulture

focuses on the science and art concerned with culture, marketing, and utilization of high value, intensively cultivated fruits, flowers, vegetables, and ornamental plants. Sample job titles: Retail Manager, Landscape Designer, Entrepreneur, Florist, Contractor, Nursery Grower, and Nursery Stock Buyer. Companies that hire for these positions: Gerber, Mawby Fruit Farms, Ball Corporation, and Pan American Seed.

Forestry

focuses on the science and art of managing natural resources that occur on forest lands. Sample job titles: Forester, Forest Ranger, Consulting Forester, District Ranger, Arborist, Naturalist, Timber Buyer, and Forest Nursery Manager. Companies that hire for these positions: The Mead Corporation, John Hancock Financial Services, City Governments, and USDA Forest Service.

Food Science

focuses on the development of new foods, investigation of new production and processing methods, and research ways to insure a safe, nutritious and economical food supply. Sample job titles: Food Technician, Laboratory Technician, Food Chemist, and Quality Control Manager. Companies that hire for these positions: Pepsicola, Kraft/General Foods, Hygrade Food Products, Kellogg Company, General Mills, Pillsbury, and Heinz USA.

Fisheries and Wildlife

focuses on environmental management, conservation, and wildlife ecology and management. Sample job titles: Land Management Specialist, Water Quality Specialist, Habitat Specialist, and Fish Hatchery Manager. Companies that hire for these positions: US Forest Service, Bureau of Land Management, State and local divisions of surface water quality, land and water management, and US Fish and Wildlife Services.



VETERINARY
CAREERS



VETERANS MEMORIAL FFA CHAPTER

Our student lead organization...

Leadership

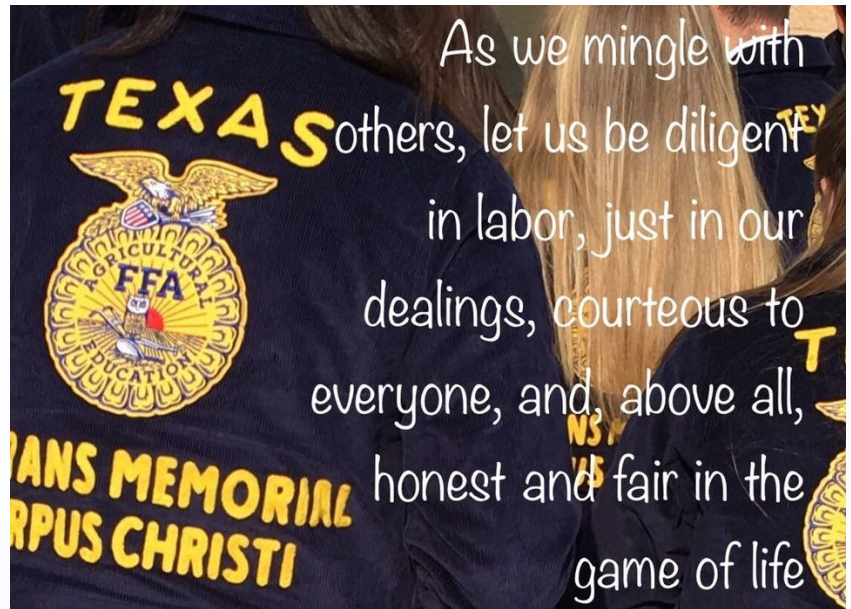
Leadership. None of us are born leaders, but the FFA helps you become one. FFA members strengthen their personal skills, learn to manage their time, and discover how to respect themselves and gain respect from others. Leadership skills are developed throughout the FFA program. There is something in FFA for everyone.



Community Service: Hurricane Relief



Washington Leadership Conference



Competition

FFA offers so many opportunities for recognition at the local, state and national level. You can hardly avoid being a winner! Students have the opportunity to earn valuable scholarships, proficiency awards, SAE Entrepreneurial Income (\$\$\$), Statewide trips to Colleges and Universities, along with team and individual awards.



2018 FFA judging teams at Tarleton State University.



Our State Qualifying Wool Team



Daniel Puckett receiving the Lone Star Degree at State Convention in July. An accomplishment that takes three years of work.



State Convention—July 2018, Ft. Worth, TX

Supervised Agriculture Experience (SAE)

The SAE program is a “learning by doing” tool in agriculture education. This program allows students to earn classroom credit and FFA awards while exploring careers, **earning money**, building a resume and **having fun**. An SAE program is designed to gain **hands-on experience** and develop skills in agricultural career areas that are of interest to the member. It instills a work ethic that you will benefit from for the rest of your life. Many of our students have projects for the **Nueces County Junior Livestock Show**, as well as major livestock shows in San Antonio, and Houston.

SAE's involve much more than just animal projects. ***Raising an animal is not a requirement to be in FFA.*** There are possible research projects, shop projects, nursery landscape & plant projects, as well as entrepreneurial projects.



Area 10 FFA Greenhand Leadership Camp

Officers

The FFA organization is a Student Led organization, that operates primarily by the members and officers. The officers of our local chapter preside and conduct chapter meetings to guide our members in making decisions for the Veterans Memorial FFA chapter.

They hold responsibilities that pertain to our annual events. Some of those events include Homecoming, the Chapter Fundraisers in the Fall and Spring, LDE & CDE teams, Livestock Shows, Officer Elections, Annual Awards Banquet, District, Area & State Convention and Summer Officer Retreat.



Our chapter officers with State FFA Officers, Cody McQueen and John Ryan Rodriguez

FFA makes a positive difference in the lives of students by developing their potential for "Premier Leadership, Personal Growth, and Career Success" through agricultural education

Veterans Memorial Agriculture Dept.

3750 Cimarron Blvd.

Corpus Christi, Texas 78414

Ph 361.878.7900

Fax 361.878.7910

Randy Alaniz randy.alaniz@ccisd.us

Edna Gonzalez edna.gonzalez2@ccisd.us

Casey Stephenson casey.stephenson@ccisd.us

phone ext. 23074

phone ext. 23077

phone ext 23075



veterans.ccisd.us

vmcc.ffmpeg.org