

# Agriculture, Food & Natural Resources Cluster

## Business & Industry Endorsement

### Questions to Ask When Exploring Careers :

1. What careers relate to things I like to do?
2. Show me the \$\$! What are the potential salaries of my careers of interest?
3. Are my careers of interest projected to grow? (Job Outlook)

### Do you....

- ✓ have a fascination with all kinds of animals, be they found on ranches, farms, the zoo, household pets?
- ✓ have an interest in farming or ranching?
- ✓ ever consider becoming a veterinarian?
- ✓ love growing beautiful plants and creating landscape designs?
- ✓ ever think about going into genetic science for plants and animals?
- ✓ love the great outdoors and an interest in forestry, and state and national parks?
- ✓ love repairing mechanical equipment and also have an interest in welding?

### Sound interesting?

Did you know that our food, clothing, shelter, transportation, medicine rely on Agriculture? Scientific research is also a huge part of plant and animal science. Even the Oil and Gas Industry! Get onboard with Ag. Science and expand your knowledge of careers in these areas!



Sample Fastest Growing AG, Food, Nat. Resources Careers-Salary Ranges in Texas	Bottom 10% & Under	50%	Top 10% & Up
Veterinary Technologists & Technicians	\$20,380	\$28,780	\$40,900
Food Science & Technologists	\$39,330	\$59,620	\$115,940
Animal Scientists	\$30,730	\$55,580	\$147,700
Veterinarians	\$55,220	\$93,310	\$153,360
Zoologists & Wildlife Biologists	\$42,330	\$66,360	\$97,600
Park Naturalists	\$37,390	\$54,620	\$74,870
Game Wardens	\$52,340	\$63,830	\$76,510
Farm Equipment Mechanics	\$22,620	\$36,170	\$53,220
Environmental Engineering Technicians	\$34,470	\$58,630	\$86,340

### Careers to Consider with a 4-Year College Degree and Higher:

- Environmental Science & Protection Technicians
- Agricultural Managers
- Range Manager

### With a 2-Year College Degree:

- Veterinary Technologists
- Tractor Technician

### Certificate or HS Diploma

- Animal Trainer
- Nonfarm Animal Caretakers
- Commercial Divers



# Career Pathways in Agriculture, Food, & Natural Resources

Pathways and Required Courses					
<b>Animal Science: Veterinary Technician Guthrie Center</b>	Small Animal Mgmt. AND Equine Science (Taken concurrently.)	Veterinary Medical Applications	*Advanced Animal Science	Practicum in AFNR OR Internship with Veterinarian (Practicum or Internship must be the final course in the Pathways sequence.)	Certification: Certified Veterinary Assistant Level 1 (Must complete a 400 hr. Internship before graduation.)
<b>General Agricultural Sciences Animal Focus Guthrie Center</b>	Principles of Agriculture, Food and Natural Resources  Wildlife Fisheries and Natural Resources.	Ag. Mechanics  Livestock Production	*Advanced Animal Science OR Practicum in Agriculture (One of these courses must be the final course in the Pathways sequence.)		Certification: Texas Hunters Education, OSHA General 10 Hour Certification
<b>General Agricultural Sciences Plant Focus Guthrie Center</b>	Principles of Agriculture, Food and Natural Resources;  Wildlife Fisheries and Natural Resources.	Ag. Mechanics  Horticultural Science	*Advanced Plant and Soil Science OR Practicum in Agriculture (One of these courses must be the final course in this pathway sequence.)		Certification: Texas Hunters Education; OSHA General 10 Hour Certification
<b>Oil &amp; Gas Production Guthrie Center (Classes must be taken in the order listed.)</b>	Principles of Agriculture, Food and Natural Resources	Oil & Gas Production 1  Oil & Gas Production 2	Practicum in Ag. OR Internship in Energy related area. (One of these courses must be final course in this pathway sequence)		Certification: International Association of Drilling Contractors Rig Pass ; OSHA General 10 Hour Certification
<b>Plant Science: Plant Production Guthrie Center</b>	Floral Design**  Landscape Design and Management AND Turf Grass Mgmt. (Taken concurrently.)	Horticulture Science	*Advanced Plant and Soil Science  Greenhouse Operation & Production (One of these courses must be the final course in this pathway sequence.)		Certification: Texas State Florists' Association High School Floral Design Certification

\*Satisfies 3<sup>rd</sup> Year Science Graduation Requirement upon successful completion and required prerequisites.

\*\* Satisfies your Fine Arts Graduation Requirement upon successful completion.

Consult your school's Program of Studies for more Ag. Science courses listings, prerequisites, and course descriptions.

Sources: Achieve Texas, O\*Net Online, Labor Market and Career Information, CareerOneStop.org, U.S. Bureau of Labor & Statistics

## Samples of the professional experiences that students will enjoy in our Agricultural courses:

- explore careers in the oil & gas industry • flower arranging • basics of veterinary medical profession • Hunter's Ed. Certification
- identify, manage and conserve wildlife and ecology • national FFA opportunities • Career Prep/Internship (w teacher recommendation)

### For more information, contact your school counselor or:

Beverly Litton  
Guthrie Center & Career and Technical Education Counselor

Spring Branch Independent School District  
The Guthrie Center

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