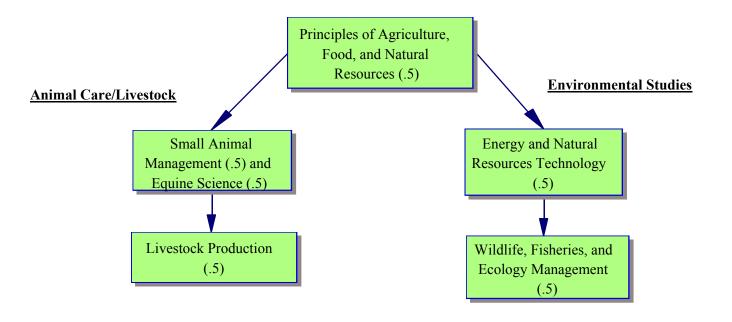


The Agriculture, Food, and Natural Resources pathway focuses on careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services. Students who follow this pathway will have the opportunity to participate in FFA and receive certification in Private Pesticide Application.

Suggested	Four	Year	Plan
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	Grade	English/ Language Arts	Math	Science	Social Studies	Suggested Courses (* indicates graduation requirement)	Sample Occupations Relating to This Career Cluster
High	9	English I	Algebra I	Biology	World Geography	Principles of Agriculture, Food, & Natural Resources Communication Applications* P.E. <u>or</u> Equivalent*	 Environmental Technician Agricultural Researcher Landscape Technician Soil Scientist
	10	English II	Geometry	Chemistry	World History	Foreign Language I* Small Animal Management Equine Science Fine Art*	 Soli Scientist Plant Scientist Agronomy Entomology
School Plan	11	English III	Algebra II or Math Models	Physics	• Texas	 Extracurricular Activities Texas Future Farmers of America 	
	12	English IV	Algebra II (If Math Models in Grade 11) or Other State Approved Math Course	State Approved Science Course	U.S. Government and Economics	(Energy & Natural Resources Technology and Wildlife, Fisheries, and Ecology Management may be taken in 10-12 grades)	



Career and Technical Education: Agriculture Science and Technology

Course Name	Credits	Grade Levels	Prerequisites
Agricultural Mechanics and Metal Technologies	.5	10-12	Ag. Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources
Energy & Natural Resources Technology	.5	10-12	Ag. Science Tech <u>. or</u> Principles of Agriculture, Food & Natural Resources
Equine Science	.5	10-12	Ag. Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources
Livestock Production	.5	10-12	Ag. Science Tech <u>. or</u> Principles of Agriculture, Food & Natural Resources
Principles of Agriculture, Food and Natural Resources	.5	9-12	None
Small Animal Management	.5	10-12	Ag. Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources
Wildlife Fisheries & Ecology Management	.5	10-12	Ag. Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources

Agricultural Mechanics and Metal Technologies PEIMS: 13002200 Grade Placement: 10-12

Prerequisite: Ag Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources

Credit: .5

A course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

Energy and Natural Resources Technology PEIMS: 13001100

Grade Placement: 10-12

Prerequisite: Ag Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources

Credit: .5

This course is designed to explore the interdependency of the public and natural resource systems related to energy production.

Equine Science

PEIMS: 13000500
Grade Placement: 10-12
Prerequisite: Ag Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources

Credit: .5

A course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health and management of horses.

Livestock Production PEIMS: 13000300 Grade Placement: 10-12 Prerequisite: Ag Science Tech. <u>or</u> Principles of Agriculture. Food & Natural Resources

Credit: .5

This course is designed to prepare for careers in the field of animal science. Animal species to be addressed in this course may include, but not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Principles of Agriculture, Food and Natural Resources

PEIMS: 13000200 Grade Placement: 9-12 Prerequisite: None Credit: .5

This course is designed to prepare students for careers in agriculture, food, and natural resources. This is course is required for all other agriculture science classes.

Small Animal Management

PEIMS: 13000400

Grade Placement: 10-12

Prerequisite: Ag Science Tech. <u>or</u> Principles of Agriculture, Food & Natural Resources

Credit: .5

This course prepares students for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems.

Wildlife Fisheries & Ecology ManagementPEIMS: 13001500Grade Placement: 10-12Prerequisite: Ag Science Tech. <u>or</u> Principles of
Agriculture, Food & Natural Resources

Credit: .5

This course examines the management of game and nongame wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.