Section 5 - Career & Technical Education (CTE) Course Offerings & Descriptions

Agriculture, Food, and Natural Resources

Sequence	Year 1	Year 2	Year 3	Year 4	Industry Based Certifications
		Small Animal Management 0.5 Credits 13000400 AND	Livestock Production 1 Credit 13000300	Advanced Animal Science 1 Credit COUNTS AS ADV. SCI. 13000700 OR	Elanco Veterinary Medical Applications Certification
Animal Science	Principles of AFNR 1 Credit 13000200	Equine Science 0.5 Credits 13000500	OPTIONAL Elective for Vet Med: Medical Terminology 1 Credit 13020300	Veterinary Medical Applications 1 Credit 13000600 OR	Elanco Fundamentals of Animal Science Certification
				OPTIONAL: Practicum in Agriculture, Food, and Natural Resources 2 Credits 13002500	
Environmental & Natural Resources	Principles of AFNR 1 Credit 13000200	Wildlife, Fisheries, & Ecology Management 1 Credit 13001500	Range Ecology Management 1 Credit 13001600	Practicum in AFNR 2 Credits 13002500	Natural Resources Systems Water Operators, Class D
		Landscape Design and Management 0.5 Credits 13001900 AND	Floral Design 1 Credit COUNTS AS FINE ART 13001800 OR	Advanced Plant and Soil Science 1 Credit COUNTS AS ADV. SCI. 13002100 OR	Texas State Florist's Association Knowledge Based Floral Certification
Plant Science	Principles of AFNR 1 Credit 13000200	Turf Grass Management 0.5 Credits 13001950	Horticultural Science 1 Credit 13002000	Advanced Floral Design 1 Credit N1300270 OR	Texas State Florist's Association Level I Floral Certification
	15000200			OPTIONAL: Practicum in Agriculture, Food, and Natural Resources 2 Credits 13002500	Texas State Florist's Association Level II Floral Certification

Animal Science

620R	Principles of Agriculture, Food & Natural Resources			PRINAFNR	СТЕ
9 - 12	9 - 12 Program of Study: Animal Science and Plant Science 13000200 Length of Course: Year				On-Level
Prerequisite(s): None					0

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.

606R	Equine Science			EQUINSCI	СТЕ
10 - 12	Program of Study: Animal Science	13000500	Length of Course: Semester	Credit: .5	On-Level
Recomm	nended Prerequisite(s): Principles of Agriculture, Food &	à Natural Res	ources	Fee Required: N	0

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.

605R	Small Animal Management			SMANIMGT	СТЕ
10 - 12	Program of Study: Animal Science	13000400	Length of Course: Semester	Credit: .5	On-Level
Recomm	ended Prerequisite(s): Principles of Agriculture, Food &	x Natural Res	ources	Fee Required: N	o

Description: In Small Animal Management, students will acquire knowledge and skills related to small animals and the small

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animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

621R	Livestock Production			LIVEPROD	CTE
10-12	Program of Study: Animal Science	13000300	Length of Course: Year	Credit: 1	On-Level
Prerequi	isite(s): None	Fee Required: N	o		

Description: In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

330R	Medical Terminology			MEDTERM	CTE
9 - 12	Program of Study: Animal Science	13020300	Length of Course: Year	Credit: 1	GPA Level 1
Recomm	nended Prerequisite: Principles of Health Science			Fee Required: N	o

Description: The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

623R	Advanced Animal Science			ADVANSCI	CTE
11-12	Program of Study: Animal Science	13000700	Length of Course: Year	Credit: 1	On-Level
and eithe	isite(s): Biology and Chemistry or Integrated Physics and er Small Animal Management, Equine Science, or Livesto sended Prerequisite: Veterinary Medical Applications.			Fee Required: N	0

Description: Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. *Note: This course satisfies a science credit requirement for students on the Foundation High School Program.*

622R	Veterinary Medical Applications		VETMEDAP	СТЕ	
11-12	Program of Study: Animal Science	13000600	Length of Course: Year	Credit: 1	On-Level
Prerequ	isite(s): Equine Science, Small Animal Management, or Li	vestock Produ	uction.	Fee Required: N	О

Description: Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

	Plant Science							
629R	Floral Design			FLORAL	СТЕ			
9-12	Program of Study: Plant Science	13001800	Length of Course: Year	Credit: 1	On-Level			
Prerequ	isite(s): None	Fee Required: N	lo					

Description: Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. *Note: This course satisfies a fine arts credit requirement for students on the Foundation High School Program.*

632R	Advanced Floral Design	ADVFLDS	СТЕ
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	11-12	Program of Study: Plant Science	N130027 0	Length of Course: Year	Credit: 1	On-Level
Prerequisites: Floral Design					Fee Required: N	0

Description: In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

	Wildlife, Fisheries, & Ecology Management	WFECGT	CTE		
10 - 12	Program of Study: Environmental Resources	13001500	Length of Course: Year	Credit: 1	On-Level
Prerequi	site: Principles of AFNR			Fee Required: N	0

Description: Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

	Landscape Design & Management			LNDMGT	СТЕ
10 - 12	Program of Study: Environmental Resources	13001900	Length of Course: Semester	Credit: 0.5	On-Level
Prerequisite:				Fee Required: No	

Description: Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

	Turf Grass Management			TGMGT	СТЕ	
10 - 12	Program of Study: Environmental Resources	13001950	Length of Course: Semester	Credit: 0.5	On-Level	
Prerequisite:					Fee Required: No	

Description: Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices.

690R	Practicum in Agriculture, Food, and Natural Resources			PRACAFNR1	СТЕ
11-12	Program of Study: Plant Science	13002500	Length of Course: Year	Credit: 2	On-Level
	nended Prerequisite: A minimum of one credit from the oresources Career Cluster.				

Description: Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in Agriculture, Food, and Natural Resources Career Cluster.

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