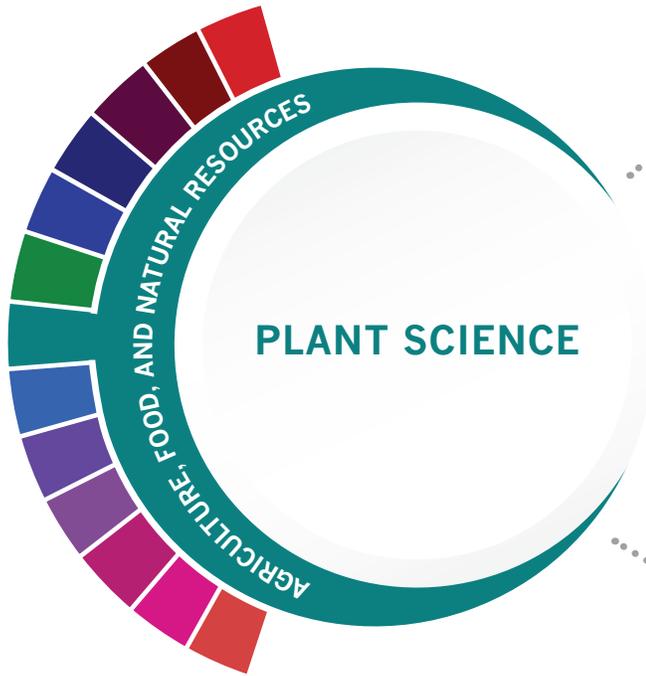


COURSES



GRADE 9

Principles of Agriculture, Food, and Natural Resources
Level 1

GRADE 10

Floral Design
Level 2

GRADE 11

Horticultural Science
Level 3

GRADE 12

Practicum in Agriculture, Food, and Natural Resources
Advanced Plant and Soil Science
Project-Based Research
Scientific Research and Design
Level 4

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Pesticide Applicator	Applied Horticulture/ Horticulture Operations, General		
	Certified Floral Designer	Ornamental Horticulture	Agronomy and Crop Science	
Texas State Floral Association Level One Floral Certification	Accredited Member of AIFD	Agricultural Business and Management, General		
	Landscape Industry Certified Technician	Turf and Turfgrass Management	Farm/Farm and Ranch Management	

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	\$36,733	196	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Texas FFA

Work Based Learning Activities:
Work part-time at a florist;
start or work for a local landscaping business

The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field. The Agriculture, Food, and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from



It is the policy of Weslaco ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Successful completion of the Plant Science program of study will fulfill requirements of a Business and Industry Endorsement. Approved Statewide Program of Study - September 2019 modified by Weslaco ISD Career & Technical Education



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit)	None	9-12
Floral Design/Lab	13001800 (1 credit) 13001810 (2 credits)	None	9-12
Landscape Design and Management	13001900 (.5 credit)	None	10-12
Turf Grass Management	13001950 (.5 credit)	None	10-12
Horticultural Science/Lab	13002000 (1 credit) 13002010 (2 credits)	None	10-12
Advanced Floral Design	N1300270 (1 credit)	PREQ: Floral Design	11-12
Greenhouse Operation and Production/Lab	13002050 (1 credit) 13002060 (2 credits)	None	10-12
Viticulture	N1300265 (1 credit)	None	10-12
Advanced Plant and Soil Science	13002100 (1 credit)	None	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 13002505 (3 credits) 13002510 (2 credits) 13002515 (3 credits)	None	11-12
Project-Based Research	12701500 (1 credit)	None	11-12
Scientific Research and Design	13037200 (1 credit)	PREQ: Biology, Chemistry, Integrated Physics and Chemistry (IPC), or Physics	11-12

FOR ADDITIONAL INFORMATION ON THE AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER, PLEASE CONTACT:

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<https://tea.texas.gov/cte>