Texas CTE

Horticultural Science (One Credit) (2015)

The student demonstrates professional standards/employability skills as required by business and industry. The student is expected to: 130.23.C.1	A identify career development and entrepreneurship opportunities in the field of horticulture 130.23.C.1A
	B apply competencies related to resources, information, interpersonal skills, and systems of operation in horticulture; 130.23.C.1B
	C demonstrate knowledge of personal and occupational safety practices in the workplace; 130.23.C.1C
	D identify employer expectations and appropriate work habits; and 130.23.C.1D
	E demonstrate characteristics of good citizenship, including advocacy, stewardship, and community leadership 130.23.C.1E
The student develops a supervised agriculture experience program. The student is expected to: 130.23.C.2	A plan, propose, conduct, document, and evaluate a supervised agriculture experience program as an experiential learning activity; 130.23.C.2A
	B apply proper record-keeping skills as they relate to the supervised agriculture experience; 130.23.C.2B
	C participate in youth leadership opportunities to create a well-rounded experience program; and 130.23.C.2C
	D produce and participate in a local program of activities using a strategic planning process. 130.23.C.2D
The student develops technical skills associated with the management and production of horticultural plants. The student is expected to: 130.23.C.3	A classify horticultural plants based on physiology for taxonomic and other classifications; 130.23.C.3A
	B manage the horticultural production environment; 130.23.C.3B
	C propagate and grow horticultural plants; 130.23.C.3C
	D create a design using plants that demonstrates an application of design elements and principles; 130.23.C.3D
	lesign and establish landscapes; 130.23.C.3E

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	F describe the processes of fruit, nut, and vegetable production; and 130.23.C.3F
	G demonstrate proper pruning techniques. 130.23.C.3G
The student identifies structures and physiological processes used in plant production. The student is expected to: 130.23.C.4	**A** examine unique plant properties to identify and describe functional differences in plant structures, including roots, stems, flowers, leaves, and fruit; 130.23.C.4A
	B differentiate between monocots and dicots and male and female plants; 130.23.C.4B
	C germinate seeds and transplant seedlings; and 130.23.C.4C
	D demonstrate asexual propagation techniques 130.23.C.4D
The student manages and controls common pests of horticultural plants. The student is expected to: 130.23.C.5	**A** identify common horticultural pests and pathogens; 130.23.C.5A
	B demonstrate safe practices in selecting, applying, storing, and disposing of chemicals; and 130.23.C.5B
	C explain parts of a pesticide label. 130.23.C.5C
The student demonstrates marketing and management skills used in the operation of horticultural businesses. The student is expected to: 130.23.C.6	**A** identify and maintain hand and power tools and equipment; 130.23.C.6A
	B select appropriate tools and equipment; 130.23.C.6B
	C demonstrate safe use of tools and equipment; 130.23.C.6C
	D identify options and opportunities for business ownership; and 130.23.C.6D
	E analyze the role of small business in free enterprise 130.23.C.6E