

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](#)

- E** design and establish landscapes; [130.23.C.3E](#)

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
