

## **AE.HO3 Horticulture III**

### Essential Discipline Goals

- Develop a knowledge of the horticulture industry and its relevance to the individual and society.
- Develop and apply through horticulture experiences and examples, creative thinking and problem solving abilities.
- Acquire and apply knowledge of the concepts, theories, principles, and laws of science to interpret the world of horticulture.
- Utilize horticultural experiences in the planning and fulfillment of personal aspirations and career decisions.
- Develop a basic knowledge of the language used to interpret the fundamentals and applications of horticulture.

#### Standard

#### Indicators

- AE.HO3.05** Identify career opportunities in the horticulture industry 1.7.5
- AE.HO3.05.01** Conduct career search in Career Center 1.7.5
  - AE.HO3.05.02** Describe procedure for finding a job 1.7.5
  - AE.HO3.05.03** Write a persona/data sheet 1.7.5
  - AE.HO3.05.04** Complete a job application 1.7.5
  - AE.HO3.05.05** Participate in a job interview 1.7.5
  - AE.HO3.05.06** Participate in a job shadowing 1.7.5
  - AE.HO3.05.07** Develop a student portfolio 1.7.5
- AE.HO3.10** Identify plant parts and their functions 1.5.7
- AE.HO3.10.01** Review State and National FFA Horticulture CDE plant science questions 1.5.7
- AE.HO3.15** Develop an understanding of plant taxonomy 1.5.7
- AE.HO3.15.01** Identify plants from Frederick Co. Plant List 1.5.7
  - AE.HO3.15.02** Develop a plant ID test for the class 1.5.7
- AE.HO3.20** Identify the cultural requirement for production of plants in the greenhouse 3.2.2
- AE.HO3.20.01** Inventory greenhouse plants 1.5.7
  - AE.HO3.20.02** Research, plan, and establish growing schedules for flowering and foliage plants 1.5.7
- AE.HO3.25** Demonstrate a knowledge of plant propagation techniques as they relate to plant production 3.2.1
- AE.HO3.25.01** Conduct experiments with growth regulators and stimulants 3.2.1
  - AE.HO3.25.02** Propagate variety of woody and herbaceous plants 3.2.1
- AE.HO3.30** Demonstrate a knowledge of floral design principles and techniques
- AE.HO3.30.01** Construct arrangements in advanced designs
  - AE.HO3.30.02** Advertise, sell, and construct corsages for an event
  - AE.HO3.30.03** Develop customer relations skills
- AE.HO3.35** Demonstrate a knowledge of the principles and practices used in turf and landscape maintenance. 1.3.4
- AE.HO3.35.01** Test soil in flower beds on school campus with soil test kits 1.3.1
  - AE.HO3.35.02** Attend soil judging contest 1.3.1
- AE.HO3.40** Identify emerging technologies in plant propagation 1.7.6
- AE.HO3.40.01** Utilize Internet to research new techniques 1.5.5
- AE.HO3.45** Identify the principles and practices used in landscape design 1.5.0
- AE.HO3.45.01** Demonstrate proper procedure for setting up a transit 1.3.1
  - AE.HO3.45.02** Record field notes on differential leveling 1.3.1
  - AE.HO3.45.03** Complete computer assisted landscape design program 1.5.5
  - AE.HO3.45.04** Read and interpret landscape plans and compile plant and material lists 1.5.4
  - AE.HO3.45.05** Complete landscape on school campus 1.7.1
- AE.HO3.50** Develop an understanding of the control of plant pests through natural, chemical, and biological means 3.5.1
- AE.HO3.50.01** Identify common pests 3.5.1
  - AE.HO3.50.02** Use IPM practices to control pests 1.3.4

- AE.HO3.55** Demonstrate and apply knowledge of skills related to pruning
  - AE.HO3.55.01** Prune trees and shrubs on the school campus
- AE.HO3.60** Develop an understanding of business management and marketing
  - AE.HO3.60.01** Prepare a plan for establishing a horticulture enterprise
  - AE.HO3.60.02** Estimate business income and expenses
  - AE.HO3.60.03** Develop salesmanship and customer relations skills
  - AE.HO3.60.04** Plan and construct advertising displays
  - AE.HO3.60.05** Order wholesale supplies
  - AE.HO3.60.06** Deliver flowers
  - AE.HO3.60.07** Design a sales brochure using computer graphics