North Carolina CTE

Horticulture I (2012): Grades 9, 10, 11, 12

Adopted 2012

Leadership, Careers and SAE

00. Examine leadership opportunities related to the horticulture industry. 1.00

01. Discuss the organization available for students in horticulture. 1.01
02. Demonstrate parliamentary procedures and public speaking used in horticulture business meetings. 1.02

00. Examine careers related to horticulture. 2.00

01. Discuss careers and skills necessary for employment in the horticulture industry. 2.01
02. Implement an SAE. 2.02

Plant Physiology

00. Summarize plant anatomy. 3.00

01. Discuss biological terms used to describe plants. 3.01
02. Discuss the anatomy and functions of plants. 3.02
03. Discuss floriculture and landscape plants. 3.03

00. Examine factors relating to plant growth and development. 4.00

01. Explain the growth process of plants. 4.01
02. Use sexual and asexual methods of propagation. 4.02

Soils, Nutrients, and Fertilizers

00. Explain properties of soils. 5.00

01. Discuss horticultural soils. 5.01
02. Discuss the soil profile and soil sampling for surface and subsurface layers. 5.02

00. Explain the role of nutrients and fertilizers. 6.00

01. Discuss macro and micro nutrients and the role they play in plant deficiencies. 6.01
02. Discuss the advantages and disadvantages of various fertilizers. 6.02

Apply procedures to plant a garden. 7.00

01. Plan a garden. 7.01

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02. Establish a garden. 7.02

Pest Management

00. Compare distinguishing characteristics of pests. 8.00

01. Discuss the anatomy and life cycle of pests. 8.01

02. Discuss diseases and viruses. 8.02

00. Explain Integrated Pest Management and pesticides. 9.00

01. Discuss integrated pest management strategies. 9.01

02. Discuss key signal words and safety precautions on pesticide labels. 9.02