

Horticulture I

85 actual instructional days

ES # Obj.#	Units, Essential Standards, and Objectives (The learner will be able to:)	Time Days	Course Weight	Cognitive process	Core or Supplement
1	2		4	5	6
	Total Course Weight		100%		
A.	Leadership, Career and SAE	17	20%		
1.00	Examine leadership opportunities related to the horticulture industry.	9	10%	C3	Core
1.01	<i>Discuss the organization available for students in horticulture.</i>	4	5%	C2	Core
1.02	<i>Demonstrate parliamentary procedures and public speaking used in horticulture business meetings.</i>	5	5%	C3	Core
2.00	Examine careers related to horticulture.	8	10%	C3	Core
2.01	<i>Discuss careers and skills necessary for employment in the horticulture business.</i>	4	5%	C2	Core
2.02	<i>Implement an SAE.</i>	4	5%	C3	Core
B.	Plant Physiology	26	30%		
3.00	Summarize plant anatomy.	17	20%	C2	Core
3.01	<i>Discuss biological terms used to describe plants.</i>	4	5%	C2	Core
3.02	<i>Discuss the anatomy and functions of plants.</i>	4	5%	C2	Core
3.03	<i>Discuss floriculture and landscape plants.</i>	9	10%	C2	Core
4.00	Examine factors relating to plant growth and development.	9	10%	C3	Core
4.01	<i>Explain the growth process of plants</i>	4	5%	C2	Core
4.02	<i>Use sexual and asexual methods of propagation.</i>	5	5%	C3	Core

C.	Soils, Nutrients, and Fertilizers	25	30%		
5.00	Explain properties of soils.	8	10%	C2	Core
5.01	<i>Discuss horticultural soils.</i>	4	5%	C2	Core
5.02	<i>Discuss the soil profile and soil sampling for surface and subsurface layers.</i>	4	5%	C2	Core
6.00	Explain the role of nutrients and fertilizers.	8	10%	C2	Core
6.01	<i>Discuss macro and micro nutrients and the role they play in plant deficiencies.</i>	4	5%	C2	Core
6.02	<i>Discuss the advantages and disadvantages of various fertilizers.</i>	4	5%	C2	Core
7.00	Apply procedures to plant a garden.	9	10%	C3	Core
7.01	<i>Plan a garden.</i>	5	5%	C3	Core
7.02	<i>Establish a garden.</i>	4	5%	C3	Core
D.	Pest Management	17	20%		
8.00	Compare distinguishing characteristics of pests.	9	10%	C2	Core
8.01	<i>Discuss the anatomy and life cycle of pest.</i>	5	5%	C2	Core
8.02	<i>Discuss diseases and viruses.</i>	4	5%	C2	Core
9.00	Explain Integrated Pest Management and pesticides.	8	10%	C2	Core
9.01	<i>Discuss integrated pest management strategies.</i>	4	5%	C2	Core
9.02	<i>Discuss key signal words and safety precautions on pesticide labels.</i>	4	5%	C2	Core