

**Course Information Sheet****Course Name: Horticultural Science****Instructional Material: iCEV****First Semester:**

Week	Topic/Unit
1	Introduction to Horticulture & Career Opportunities
2	Plant Anatomy & Physiology
3	Plant Propagation: Seeds & Sexual Propagation
4	Plant Propagation: Asexual Propagation
5	Soil Science: Components & Types
6	Soil Chemistry & pH Management
7	Plant Nutrition: Essential Nutrients
8	Fertilizers: Types & Application
9	Plant Classification & Identification
10	Integrated Pest Management (IPM) Principles
11	Identifying & Managing Pests of Horticultural Crops
12	Identifying & Managing Diseases of Horticultural Crops
13	Greenhouse Structures & Environmental Controls
14	Landscape Design Principles
15	Turfgrass Management
16	Nursery & Greenhouse Production
17	Tree & Shrub Care
18	Final Review & Fall Semester Wrap-up



**Second Semester:**

Week	Topic/Unit
19	Fruit & Vegetable Production
20	Herbaceous Plant Production
21	Viticulture (Grape Production)
22	Floriculture & Floral Crops
23	Post-Harvest Handling of Horticultural Crops
24	Landscape Maintenance Practices
25	Irrigation & Water Management
26	Horticultural Marketing & Sales
27	Horticultural Business & Entrepreneurship
28	Supervised Agricultural Experience (SAE) in Horticulture
29	Horticultural Research & Biotechnology
30	Urban Horticulture & Sustainable Practices
31	Current Issues & Trends in the Horticulture Industry
32	Plant Judging & Showmanship
33	Hands-on Project: Plant Production & Care
34	Final Project: Creating a Landscape Plan or Business Plan
35	Review for Final Exam & Certifications
36	Final Exam & Spring Semester Wrap-up