Course Information Form (CIF)

Course Code: HRT 270

Course Title: Greenhouse Crop Production

Department: Agricultural Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 01.0604
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 2-2-3
Credit Hour Distribution:

Lecture: 2	Lab: 2	Clinical: 0	**Total: 3**

General Course Information

Catalog Description

Production of various crops in the greenhouse environment, including flowers, herbs, and garden plants. Topics include propagation, cultural practices, and scheduling crop growth for target market periods. Hands-on experience in the greenhouse plus field trips.

General Course Objectives

Students will be provided with a working knowledge of current principles and practices that are important for successful greenhouse operation and management. This course will provide a foundation of basic knowledge about cultural production practices which are required for commercial plant production in greenhouses.

Minimum Placement Levels

English	Reading	Math
Placement into ENG 098	Placement into CCS 098	Placement into MAT 060

Prerequisites

Credit or concurrent enrollment in AGB 104

Methods of Evaluation

The minimum number of evaluation methods include: 2 hourly exams, 5 lab assignments, 1 fertilizer project, and a final exam.

Instructional Materials and Additional Supplies

The Commercial Greenhouse, current edition, Boodley and Newman, Delmar Cengage Learning (recommended).
Floriculture: Principles and Species, current edition, Dole and Wilkins, Prentice-Hall (recommended).

Course Content

General Learning Outcomes (GLOs)

- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Procedures of Plant Production	1. Describe the procedural steps involved in crop production in a greenhouse environment from propagation to marketing.	6	10	0
Cultural Practices	1. Identify the major cultural practices used in the propagation and growth of various greenhouse crops, including flowers, herbs, and garden plants.	4	3	0
Plant Production	1. Select the correct equipment. 2. Compile a timing schedule of when to start plants/seeds. 3. Develop a watering schedule. 4. Demonstrate proper techniques for watering various crops. 5. Choose finished pot size and number of plants.	4	3	0
Fertilization	1. Select and use fertilizers and other sources of plant nutrition, including the best methods of application.	4	3	0
Maintenance	1. List a schedule of the best maintenance practices. 2. Demonstrate those practices.	4	3	0
Marketing	1. Schedule crops to be ready for sales date. 2. Construct a sales and marketing plan for crops grown.	8	8	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	30	0