Course Information Form (CIF)

Course Code: HRT 111

Course Title: Sustainable Urban Horticulture

Department: Agricultural Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 01.0601
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

Overview of how to produce food crops and methods of overcoming the challenges facing the availability of fresh and nutritious food produce. Sustainable food production and gardening as alternatives to traditional rural farming and distribution for local foods.

General Course Objectives

Students will be provided with working knowledge of alternative food production for urban areas and management implications for sustainable food production systems.

Minimum Placement Levels

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

Prerequisites

None

Methods of Evaluation

The minimum number of evaluation methods used include: 3 hourly exams, 3 quizzes, 1 creative project, 8 homework assignments, attendance, participation, and 1 final exam.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- 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
Organics vs. Sustainable	1. Identify the principles of sustainable horticulture as they relate to production practices. 2. Demonstrate understanding of key components of organic and sustainable production practices through hands-on activities in laboratory and/or field settings.	5	5	0
Alternative Farming Systems	1. Define Agriculture Urbanism, food deserts, Artisan agriculture, straw bale, permaculture, and biodynamic agriculture. 2. Demonstrate understanding of alternative farming systems through experiential learning exercises and hands-on activities in laboratory and/or field settings.	9	9	0
Pest Management	1. Identify the symptoms, life cycle, hosts, and possible controls of food crop plant pests.	6	7	0
Cropping Systems	1. Demonstrate the basics of extending the season using high tunnels, no till/cover crops, expanding crop diversity, and other systems of vegetable, herb, and small fruit production.	6	9	0
Regulations	1. Determine and list safety measures and apply any state and federal laws and regulations. 2. Determine marketing and selling of crops safely. 3. Determine economic concerns with application of pesticides and synthetic fertilizers.	4	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	30	0