

SOUTHEAST COMMUNITY COLLEGE
COURSE SYLLABUS
ADVANCED TECHNOLOGIES & SKILLED TRADES
Horticulture & Turfgrass Management Program
Revision Date: August 2020

I. CATALOG DESCRIPTION

Course Number: HORT 1190
Course Title Horticulture Pest Management
Prerequisite(s): None

Catalog Description: Study of chemical, biological, and cultural methods of managing weeds, diseases, and insect pests of horticulture and turfgrass plants.

Credit Hours: 3.0
Class Hours: 45
Lab Hours 0
Total Contact Hours: Total of Class + Lab Hours 45

II. COURSE OBJECTIVES: *Course will:*

- a. Introduce the common weeds, diseases and insects affecting cool and warm season turfgrasses.
- b. Introduce the common weeds, diseases and insects affecting woody and ornamental horticulture plants.
- c. Discuss cultural management practices for pest prevention in woody and ornamental horticulture plants
- d. Discuss preventative and curative control measures for various horticulture and turfgrass pests.
- e. Introduce the proper diagnostic procedures for pest related issues.
- f. Discuss how to take proper samples to be set to diagnostic labs for testing.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Identify, diagnose and control weeds affecting woody, ornamental, and turfgrass plants, based on their life cycles and growth habits.
2. Identify symptoms, diagnose and control various diseases that affect woody, ornamental, and turfgrass plants, depending on the environmental conditions and stage of disease.
3. Identify insects, insect symptoms, and control insect pests that horticulture and turfgrass plants, depending on their life cycles.
4. Explain preventative and curative control measures for various diseases, weeds, and insects.
5. Understand when certain pest issues may be more prevalent through the annual growing season.
6. Be able to explain how to take a plant sample to be sent to a diagnostic lab for testing.

B. GENERAL EDUCATION LEARNING OUTCOMES

GELO #3: Critical Thinking & Problem Solving

Critical thinkers have the ability to evaluate a problem or assumption and determine an appropriate course of action. They use reason and evidence to make judgments and decisions. Critical thinking and problem-solving skills rank highly among employer expectations.

Outcomes:

- 1) Synthesize information to arrive at reasoned solutions to problems.

IV. CONTENT/TOPICAL OUTLINE (*course outline may provide more detailed information*)

- A. Annual Weeds
- B. Biennial Weeds
- C. Perennial Weeds
- D. Leaf and Tissue Diseases
- E. Root Diseases
- F. Leaf and Stem Feeding Insects
- G. Root Feeding Insects
- H. Other Pests of Horticulture and Turfgrass Pests

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

B. Other Resources:

Calculator, Notebook

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Methods of presentation typically include a combination of the following:
 - a. Methods will include, but not limited to:
Lecture, laboratory assignment and tasks, slide and video presentations, research and writing assignments, field trips, and guest lectures and speakers.
 - b. Lab Activities

VII. METHODS OF EVALUATION

- A. Methods of evaluation typically include a combination of the following:
- B. Quizzes, tests, and exams
- C. Skills project and exam
- D. Research project
- E. Daily Evaluation
- F. Computer Simulation
- G. Lab Participation

SCC STANDARD GRADING SCALE POLICY:

A+ 95-100	C+ 75-79
A 90-94	C 70-74
B+ 85-89	D+ 65-69
B 80-84	D 60-64
	F Below 60

VIII. SPECIFIC COURSE REQUIREMENTS:

- a. Successful completion of all exams, projects, and assignments.
- b. Properly and safely operate all college equipment.
- c. Utilize proper safety eyewear at all times in lab.