

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

I. CATALOG DESCRIPTION

Course Number: HORT 1290
Course Title Pesticide Certification and Application
Prerequisite(s): None

Catalog Description: A study of the current laws and regulations as they affect the commercial application of pesticides. This course serves as preparation for the Nebraska Commercial Pesticide Applicators Examination. Students will also study pesticides and application procedures. Students will gain valuable experience in operating equipment used for the application of pesticides.

Credit Hours: 2.0
Class Hours: 15
Lab Hours: 45
Total Contact Hours: Total of Class + Lab 60 Hours

II. COURSE OBJECTIVES: *Course will:*

1. Introduce the current laws and regulation governing pesticides.
2. Explain Integrated Pest Management
3. Cover various different types of pesticide formulations.
4. Introduce the various safety precautions to safely spray a pesticide.
5. Demonstrate correct application procedures for spraying pesticides.
6. Identify components of pesticide spraying equipment.
7. Identify how to properly calibrate equipment and mix chemicals

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

1. Successfully complete the Nebraska Commercial Pesticide Examination
2. Demonstrate proper pesticide recommendations
3. Discuss, explain, and implement an integrated pest management system
4. Demonstrate appropriate application methods, timing, rates, carryover, etc...
5. Demonstrate ability to select correct pesticides for given pests and situations
6. Gain an understanding of safe practices for handling pesticides and operating application equipment.

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. (topic)

1. (Sub-topic)

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): Commercial Applicator General Standards Booklet and Ornamental and Turf Booklet (green book)

UNL Guide for Weed, Disease, & Insect Mgt (EC130)

B. Other Resources:

Calculator, notebook (capable of holding hand-outs) pen & pencil, safety glasses, proper PPE including long-sleeve shirt, long pants, shoes, and socks

VI. METHODS OF PRESENTATION/INSTRUCTION

Methods of presentation typically include a combination of the following:

- a. Lecture, classroom discussion
- b. Laboratory demonstration and practice
- c. Field demonstration and practice

VII. METHODS OF EVALUATION

- A. Methods of evaluation typically include a combination of the following:
- B. Grading of examinations, quizzes, and written assignments
- C. Participation in laboratory and field exercises
- D. Accurately demonstrate proper pesticide identification, application recommendations and knowledge of the Federal and State Pesticide laws and regulations
- E. Attendance will be in accordance with the SCC policy located in the student handbook

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:

Student must meet all of the following to receive a passing grade.

- a. Achieve passing grade of 60% or higher, based on SCC grading scale
- b. Participate in laboratory and outdoor exercises
- c. Submit all examinations and major lab assignments
- d. Participate in the Nebraska Commercial Pesticide Applicators Examination