

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

I. CATALOG DESCRIPTION

Course Number: HORT 1242
Course Title Turfgrass Management
Prerequisite(s): None

Catalog Description: Basic study of turfgrass species and varieties and the procedures for establishment and maintenance of a turfgrass lawn.

Credit Hours: 2.0
Class Hours: 23
Lab Hours: 23
Total Contact Hours: Total of Class + Lab 46 Hours

II. COURSE OBJECTIVES: *Course will:*

- a. Introduce the benefits of turf and its environment, and why the study of turf is important.
- b. Introduce and explain turfgrass physiology and growth, and how it affects the plant.
- c. Introduce the various zones a climatic adaptation of turf growth and their importance.
- d. Introduce students to the identification of various cool- and warm-season turfgrass species.
- e. Explain and discuss the importance of turfgrass species selection based on various traits and characteristics.
- f. Introduce and demonstrate various methods of turfgrass establishment.
- g. Introduce and discuss turfgrass fertilization.
- h. Demonstrate various basic turfgrass math calculations.
- i. Demonstrate and discuss proper mowing procedures and techniques.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

- a. Identify and explain why good turfgrass management practices are crucial for sustainability.
- b. Understand and be able to identify the physiological structures of a turfgrass plant.
- c. Identify and describe the differences in turfgrass growth habits.
- d. Understand the various zones of climatic adaptation and be able to explain their influence on turfgrass growth.
- e. Identify various cool- and warm-season turfgrass species.
- f. Understand the different characteristics that each of the cool- and warm-season grasses possess, as well as understand the different applications where each of the types are used in the turfgrass industry.
- g. Develop a working knowledge of the various turfgrass establishment techniques, and be able to choose the best one for various scenarios.

- h. Develop a basic knowledge of turfgrass fertilization and various calculation used in fertilization programming.
- i. Develop an understanding of proper mowing procedures and techniques.

B. GENERAL EDUCATION LEARNING OUTCOMES

GEO #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.** Benefits of Turf and Its Management
- B.** Careers in the Turfgrass Industry
- C.** Introduction to the Grasses
- D.** Cool-Season Turfgrass Species
- E.** Warm-Season Turfgrass Species
- F.** Turfgrass Establishment
- G.** Turf Nutrition and Fertilization
- H.** Mow, Rolling, and PGR's
- I.** Irrigation
- J.** Thatch, Cultivation, and Topdressing
- K.** Golf Course Management and Equipment
- L.** Turfgrass Maintenance

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): Fundamentals of Turfgrass Management, 5th Ed., Christians, Patton, and Law.
ISBN#: 978-1-119-20463-3

B. Other Resources: Students will need a notebook and a calculator. A folder is optional for students to organize in-class handouts.

VI. METHODS OF PRESENTATION/INSTRUCTION

- A.** Methods of presentation typically include a combination of the following:
Lecture, laboratory assignment and tasks, slide and video presentations, research and writing assignments, field trips, and guest lectures and speakers.

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.