

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

ORNAMENTAL HORTICULTURE 174 – TURF AND GROUND COVER MANAGEMENT

2 hours lecture, 3 hours laboratory, 3 units

Catalog Description

Building, care and maintenance of turf grasses and ground covers in parks and landscaping. Includes soil preparation, planting, fertilizing, maintenance of common and special turf grasses and ground covers, and pest and disease problems and their control.

Prerequisite

None

Course Content

- 1) Lecture:
 - a. Turf grass identification
 - b. Identification and control of major turf pests and diseases
 - c. Identification and correction of common cultural problems for turf and ground covers
 - d. Weed control in turf areas
 - e. Turf selection and installation
 - f. Ground covers in place of turf
 - g. Turf and ground cover care and maintenance
- 2) Lab:
 - a. Turf grass identification
 - b. Cultural practices for turf and ground cover
 - c. Turf management practices on golf courses
 - d. Turf management practices on sports fields and in public areas
 - e. Turf management practices for the landscape contractor
 - f. Ground cover identification and cultural practices

Course Objectives

Students will be able to:

- 1) Identify the important turf grasses and ground covers of California.
- 2) Demonstrate the proper cultural practices for the above grasses and ground covers.
- 3) Identify the important diseases and pests and determine their control.
- 4) Identify the economically important weeds in California.
- 5) Demonstrate the proper use and maintenance of common turf equipment.
- 6) Select alternate ground covers in place of turf.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Quizzes, exams, final exam and lab assignments which measure the student's ability to:
 - a. Build, care for and maintain turf grasses and ground covers in parks and landscaping.
 - b. Perform soil preparation, planting, fertilizing and maintenance of common and special turf grasses and ground covers.

- c. Identify particular pest and disease problems and recommend and implement appropriate controls

Special Materials Required of Student

None

Minimum Instructional Facilities

- 1) Turf test plots
- 2) Classroom for lectures
- 3) Turf equipment: reel mower, rotary mower, aerator, verticut mower, spreaders, edgers (2)
- 4) Electric nursery cart
- 5) Sprayers
- 6) Rototiller

Method of Instruction

Lecture and demonstration

Out-of-Class Assignments

- 1) Reading assignments
- 2) Written exercises

Texts and References

- 1) Required (representative example): Turgeon, A. J. *Turf Grass Management*. 7th edition, 2007.
- 2) Supplemental:
 - a. Smith, K. L. *Ortho's All About Ground Covers*. Ortho Books, 2001.
 - b. Emmons, Robert and Rossi, Frank, *Turfgrass Science and Management*. 5th Edition, 2015. Cengage Learning

Exit Skills

Students having successfully completed this course exit with the following skills, competencies and/or knowledge:

- 1) Identify the important turf grasses and ground covers of California.
- 2) Demonstrate the proper cultural practices for the above grasses and ground covers.
- 3) Identify the important diseases and pests and determine their control.
- 4) Identify the economically important weeds in California.
- 5) Demonstrate the proper use and maintenance of common turf equipment.
- 6) Select alternate ground covers in place of turf.

Student Learning Outcomes

Upon successful completion of this course, students will be able to:

- 1) Identify the important turf grasses and ground covers of California.
- 2) Demonstrate the proper cultural practices for the above grasses and ground covers.
- 3) Identify the important diseases and pests and determine their control.
- 4) Identify the economically important weeds in California.
- 5) Demonstrate the proper use and maintenance of common turf equipment.
- 6) Select alternate ground covers in place of turf.