

Course discipline/number/title: HORT 1318: Introduction to Turfgrass Management

A. CATALOG DESCRIPTION

1. Credits: 3
2. Hours/Week: 2 lecture, 2 lab
3. Prerequisites (Course discipline/number): None
4. MnTC Goals (if any): NA

The management of high quality turf requires specialized skills. A thorough understanding of turfgrass morphology, environmental adaptation, and cultural requirements are important tools in the management of turfgrass. In this course, an integration of turf maintenance theory and practice will be applied to home lawns and recreational landscapes.

B. DATE LAST REVISED (Month, year): May, 2017

C. OUTLINE OF MAJOR CONTENT AREAS:

1. History and overview of turfgrass industry
2. Growth and development
3. Turfgrass species and selection
4. The turfgrass environment
5. Cultural practices
6. Integrated Pest Management (IPM)
7. Propagation

D. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Demonstrate basic knowledge of turfgrass morphology
2. Identify the seed and plants of turfgrasses species.
3. Describe the characteristics of cool- and warm-season turfgrass species.
4. Identify how the components of the environment affect turfgrass growth and development.
5. Identify soil and water conservation methods used in turfgrass management.
6. Explain cultural practices used in turfgrass management.
7. Identify turfgrass pests.
8. Discuss the components of an Integrated Pest Management (IPM) plan for turfgrass.
9. Demonstrate the ability to calculate and apply appropriate fertilizer rates.
10. Demonstrate the ability to calibrate equipment.
11. Demonstrate the safe use of turfgrass tools, equipment, and supplies.
12. Propose and assess solutions to environmental problems associated with turfgrass management.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

Methods may include but are not limited to:

1. Exams
2. Quizzes
3. Lab work & assignments
4. Lecture assignments
5. Field Trips
6. Class participation

G. RCTC CORE OUTCOME(S) ADDRESSED:

Personal and Professional Accountability. Students will take responsibility as active learners for achieving their educational and personal goals.

H. SPECIAL INFORMATION (if any): None