

# Common Course Outline

## HORT 123

### Turf Management

3 credits

## Community College of Baltimore County

### Description

**HORT 123 – 3 credits -Turf Management** covers the identification of the warm and cool season turf grass species used in residential, commercial and golf course turf installations. Special emphasis is placed upon installation, establishment, environmental factors and cultural practices of turf grasses.

Two Saturday field trips.

**3 credits; 2 lecture hours and 2 laboratory hours per week**

**Prerequisites: ACLT 052 and MATH 081**

### Overall Course Objectives

Upon completion of this course, the student will be able to:

1. describe the physiological structure of turf grasses;
2. describe the effects of the environment (atmospheric, edaphic and biotic) upon the growth and development of turf grasses;
3. identify and distinguish the different genus and species of turf grasses grown in the transitional zone;
4. describe the primary cultural practices (mowing, irrigation and fertilization) associated with turf grasses;
5. describe how cultivation, top dressing, matting, rolling, wetting agents and plant growth regulators are used to enhance turf grass growth and development;
6. describe the use and importance of pest management with turf grasses;
7. discuss pesticide safety and use associated with weed, disease, nematode, insect and large animal control;
8. describe the propagation of turf grasses, including the principles of site preparation, turf grass selection and planting procedures;
9. explain integrated pest management techniques as related to turf grasses;
10. classify pesticides by formulation and mode of action;
11. interpret the information listed on a pesticide label; and
12. describe how organic integrated pest management techniques can be used as an alternative means of pest control when growing turf grasses.

## **Major Topics**

- I. Turfgrass growth and development
- II. Turfgrass species
- III. Turfgrass environment
- IV. Primary cultural practices
- V. Supplementary cultural practices
- VI. Pest management
- VII. Turfgrass propagation
- VIII. Turfgrass cultural systems

## **Course Requirements**

**Grading/exams:** Grading procedures will be determined by the individual faculty member but will include the following:

1. Three (3) Written Exams
2. Group Project/ Presentation
3. Two (2) Saturday Field Trips
4. Participation

## **Other Course Information**

This course is a Horticulture Program core course required for the Horticulture A.A.S. Degree.

It is also a required course for the following Horticulture Certificates:

Turf and Landscape Maintenance  
Landscape Design and Installation

It is also a required course for licensure testing for a Maryland State Pesticide Applicator's license in Category III – B and C.