

# Common Course Outline

## HORT 224

### Turf Management

3 Semester Hours

## The Community College of Baltimore County

### Description

#### Turf Management

Studies the identification of the warm and cold season turf grass species used in residential, commercial, and golf course installation; special emphasis will be placed on installation, establishment, environmental factors, and cultural practices.

Prerequisite: (ENGL 051 or LVE 1) or (ESOL 051 or LVE 1), (RDNG 051 or LVR 1), (MATH 081 or LVM 1)

### Overall Course Objectives

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

- A. describe the physiological structure of turf grass.
- B. identify and distinguish the different genus and species of turf grasses grown in the transitional zone.
- C. describe the effects of the environment (atmospheric, edaphic, and biotic) on the growth and development of turf grasses.
- D. describe the primary cultural practices associated with turf grasses (mowing, fertilization, and irrigation).
- E. describe how cultivation, rolling, top dressing, matting, wetting agents, and plant growth regulation are used to enhance turf grass growth and development.
- F. describe the use and importance of pest management with turf grasses. Student will be able to discuss pesticide safety and use associated with weed, disease, nematode, insect and large animal control .
- G. describe the propagation of turf grasses including site preparation, turf grass selection, and planting procedures.
- H. list and discuss the Federal and State laws governing pesticide applicators.
- I. discuss the history of Integrated Pest Management.
- J. explain Integrated pest management techniques.
- K. classify pesticides by formulation and mode of action.
- L. evaluate pesticide compatibility and resistance to pesticides.
- M. discuss the toxicology of pesticides.
- N. summarize the potential health effects of prolonged pesticide application.
- O. list the protective clothing and gear to be used during pesticide application.
- P. outline the first aid steps to be taken after a pesticide spray accident.
- Q. discuss the potential effects of pesticides on wildlife.
- R. assess the potential effects of pesticides on the contamination of water sources.
- S. list the steps in the development of a pesticide label.
- T. comprehend the information listed on a pesticide label.
- U. demonstrate the proper handling of pesticides.
- V. describe the proper storage and disposal of pesticides.
- W. explain the proper steps to be taken with pesticide emergencies including spills and fires.
- X. recognize the liabilities associated with pesticide application.

## **Major Topics**

1. Turfgrass Growth and Development
2. Turfgrass Species
3. Turfgrass Environment
4. Primary Cultural Practices
5. Supplementary Cultural Practices
6. Pest Management
7. Turfgrass Propagation
8. Turfgrass Cultural Systems

## **Course Requirements**

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

1. 3 Written Exams
2. Group Project/Presentation
3. Attendance and Participation
4. 2 Saturday Field Trips

Date Revised: 09/28/00