



## COURSE OUTLINE

<b>Course Number</b> OHT 212	<b>Course Title</b> Landscape Construction	<b>Credits</b> 3
<b>Hours:</b> lecture/Lab/Other 2/2/0	<b>Co- or Pre-requisite</b> OHT 102 or Permission of the Program Coordinator	<b>Implementation</b> sem/year Fall 2012

### Catalog description (2011-2013 Catalog):

Prerequisite: OHT 102 or permission of the program coordinator  
Introduces students to the implementation and maintenance of landscape projects. Dominant areas of study include bidding and estimating; hardscape installation and maintenance; and advanced landscaping skills and techniques. Advanced skills to be covered include lighting, drainage, irrigation, planting and pruning. 2 lecture hours/2 laboratory hours.

### Required texts/other materials:

*Landscape Construction*, 2<sup>nd</sup> Edition, by David Sauter  
*Landscape Estimating and Contract Administration* by Anglely, Horsey and Roberts

**Revision date:**  
1/13/12

**Course coordinator:** (Name, telephone number, email address)  
Amy Ricco  
609-570-3372  
riccoa@mccc.edu

### Information resources:

[www.icpi.org](http://www.icpi.org) (interlocking concrete paving institute)  
[www.ncma.org](http://www.ncma.org) (national concrete masonry association)

### Other learning resources:

The success of this course is dependent upon a strong lab experience. Students will be working in groups

on the topic project for the week. At times, specific industry professionals may need to be brought in to teach specific skills.

## **Course Competencies/Goals**

### ***The student will be able to:***

1. Demonstrate the proper techniques for installing paver walkways, patios, driveways and retaining walls.
2. Demonstrate maintenance and repair techniques used on hardscape materials.
3. Recognize the importance of landscape contracts as an integral part of the business process.
4. Explain the processes involved in estimating and bidding on a landscape project.
5. Demonstrate the installation of plants, lighting, and drainage and irrigation systems for a residential landscape.

## **Course-specific General Education Knowledge Goals and Core Skills.**

### **General Education Knowledge Goals**

**Goal 1. Communication.** Students will communicate effectively in both speech and writing.

**Goal 2. Mathematics.** Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.

**Goal 4. Technology.** Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.

**Goal 9. Ethical Reasoning and Action.** Students will understand ethical issues and situations.

### **MCCC Core Skills**

**Goal A. Written and Oral Communication in English.** Students will communicate effectively in speech and writing, and demonstrate proficiency in reading.

**Goal B. Critical Thinking and Problem-solving.** Students will use critical thinking and problem solving skills in analyzing information.

**Goal C. Ethical Decision-Making.** Students will recognize, analyze and assess ethical issues and situations.

**Goal D. Information Literacy.** Students will recognize when information is needed and have the knowledge and skills to locate, evaluate, and effectively use information for college level work.

**Goal E. Computer Literacy.** Students will use computers to access, analyze or present information, solve problems, and communicate with others.

**Goal F. Collaboration and Cooperation.** Students will develop the interpersonal skills required for effective performance in group situations.

## **Units of study in detail.**

### **Unit I      **Landscape Techniques****

#### **Learning Objectives**

#### ***The student will be able to...***

Recognize when drainage systems need to be installed, and demonstrate their proper installation. (Course Competency 5; Gen Ed Goals 2 and 4; Core Skills B and F)

Identify the different irrigation systems available, and demonstrate the proper selection and installation. (Course Competency 5; Gen Ed Goals 2 and 4; Core Skills B and F)

Identify the different landscape lighting systems available, and demonstrate the proper selection and installation. (Course Competency 5; Gen Ed Goals 2 and 4; Core Skills B and F)

Demonstrate proper landscape installation and maintenance techniques such as planting, staking and pruning. (Course Competency 5; Core Skill D)

## **Unit II      Bidding and Estimating**

### **Learning Objectives**

***The student will be able to...***

Draft a landscape contract. (Course Competency 3; Gen Ed Goals 1 and 9; Core Skills A, C and E)

Calculate the costs involved in implementing a landscape project. (Course Competency 4; Gen Ed Goal 2)

Understand the components of overhead, and be able to calculate overhead. (Course Competency 4; Gen Ed Goal 2)

Demonstrate how to competitively and successfully bid on a landscape project. (Course Competency 4; Gen Ed Goal 2)

## **Unit III      Hardscape Installation and Maintenance**

### **Learning Objectives**

***The student will be able to...***

Demonstrate the proper installation of hardscape materials to include paver walkways, driveways, patios and retaining walls. (Course Competency 1; Gen Ed Goal 2; Core Skills C and F)

Recognize when pavers need to be maintained, and take the necessary steps to correct the situation. (Course Competency 2)

## **Evaluation of student learning**

Students will be evaluated based on the following point system.

Unit 1 Exam	100 points
Unit 2 Exam	100 points
Unit 3 Exam	100 points
Objective Quizzes (10)	100 points
Lab Mini Projects (10)	200 points
Lab Practical	<u>100 points</u>
	700 points

Students will be assessed several different ways. In lecture, they will receive an in class quiz based on each of the learning objectives. The unit exams will be a cumulative measurement of the learning objectives, and will be taken in class at the end of each unit. In lab, the students will be completing written mini-projects that will either prepare them to do the lab activity or will test their knowledge of the lab activity. Lastly, the students will have at least one lab practical that will be a hands-on test where they will need to demonstrate the skills they have learned.

### **Mercer's Grading System:**

A      93-100

A-	90-92
B+	87-89
B	83-86
B-	80-82
C+	77-79
C	70-76
D	60-69
F	0-59

### **Academic Integrity Statement**

*“Any student a) who knowingly represents the work of others as his/her own; b) uses or obtains unauthorized assistance in the execution of academic work; or c) gives fraudulent assistance to another student is guilty of cheating. Violators will be penalized in accordance with established policies and procedures.*

In this course, you will receive a grade of “0” for the assignment you are working on, and you will be reported to the college’s Academic Integrity Committee”.

### **Statement from the Office of Special Services**

Any student in this class who has special needs because of a disability is entitled to receive accommodations. Eligible students at Mercer County Community College are assured services under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973.

If you believe you are eligible for services, please contact Arlene Stinson, the Director of Student Support Services. She can be reached at 609-570-3525.

### **Lab Dress Code**

You **must** wear sturdy shoes for lab. This means no open toe shoes, sandals or flip-flops.