COURSE OUTLINE

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHT 102</td>
<td>Ornamental Horticulture</td>
<td>3</td>
</tr>
</tbody>
</table>

Hours:  
Lecture/Lab/Other: 2/2/0

Co- or Pre-requisite:  
ENG 030, ENG 035, and MAT 020

Catalog Description:
Plant propagation, insect pests, diseases of trees and shrubs, irrigation and other horticultural operations, and principles of landscape design will be covered.

Required Texts/Other Materials:
Horticulture Principles and Practices, by G. Acquaah

Course Coordinator, Lecture and Lab Instructor:
Amy Ricco, Professor
609-570-3372
riccoa@mccc.edu
MS124

Course Competencies/Goals

**The student will be able to: (Gen-Ed Knowledge Goals 1 and 2; MCCC Core Skills Goals A, B, D and F)**

1. Draw a basic landscape plan.
2. Complete a production plan for growing fruits and vegetables.
3. Sow and germinate seeds in addition to raising the seedlings successfully.
4. Operate basic greenhouse systems.
5. Recognize common weeds, insects, and diseases.
6. Implement an IPM program.
7. Recognize common plant material used in gardens and landscapes.
8. Perform basic lawn and landscape maintenance.
9. Obtain knowledge of growth requirements for annuals, perennials, trees, and shrubs.
10. Prepare a site for planting.
11. Diagnose and treat common problems of both indoor and outdoor plants.
12. Learn about good customer and co-worker relations in the work place.
13. Set up a planting schedule for growing greenhouse crops.
14. Learn about the correct handling of fruits and vegetables after harvesting.
15. Obtain basic knowledge of soils, fertilizers, and watering.
**Units of Study:**

**Unit 1:** Fundamentals of Horticulture; Divisions of Horticulture; Seed Production
   Bench and Assignment Explanations; Bench Plant Selections; Setting up Planting Schedules
   Readings: Chapter 1

**Unit 2:** Home Landscape Planning and Installation
   In Lab Project #1: Landscape Design and Plant Selection
   Readings: Chapter 15

**Unit 3:** Site Preparation
   Project Work; Soil Media Preparation and Use; Container Selection; Watering; Flat Preparation; Start of Seed Planting
   Readings: None

**Exam #1**

**Unit 4:** Soils, Water, Nutrients, and Fertilizers
   In Lab Project #2: Bedding Plant Production
   Readings: Chapter 4

**Unit 5:** Indoor Plant Growth and Maintenance
   Project Work; Fertilization
   Readings: Chapter 11 and Chapter 14

**Unit 5:** Diagnosing and Treating Plants Disorders
   Project Work; Interior Plant Introduction; Transplanting Houseplants
   Readings: Chapter 7 and Chapter 8

**Unit 6:** Greenhouse Types, Designs, and Systems
   Project Work; Greenhouse Investigation; IPM
   Readings: Chapter 12 and Chapter 13

**Exam #2**

**Unit 7:** Landscape Establishment, Care, and Maintenance
   Pruning; Project Work; Lab Project #1 Due - Design Presentations
   Readings: Chapter 17 and Chapter 19

**Unit 8:** Lawn Establishment, Care, and Maintenance
   Project Work; Lawn and Landscape Maintenance
   Readings: Chapter 18
Unit 9: Vegetable Gardening  
Project Work; Vegetable Gardening  
Readings: Chapters 20, 21 and 22

Unit 10: Growing Fruits and Nuts  
Project Work; Microclimates; Pruning Experience  
Readings: Chapter 23

Exam #3

Evaluation of Student Learning

Students will be evaluated based on the following point system.

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam #1</td>
<td>100</td>
</tr>
<tr>
<td>Exam #2</td>
<td>100</td>
</tr>
<tr>
<td>Exam #3</td>
<td>100</td>
</tr>
<tr>
<td>Weekly Quizzes</td>
<td>160</td>
</tr>
<tr>
<td>Landscape Design Project</td>
<td>100</td>
</tr>
<tr>
<td>Bedding Plant Project</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>660</td>
</tr>
</tbody>
</table>

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

Explanation of Point System:
Exams - Exams will be given in lecture and are based on lecture material. Lecture exams are not cumulative. Exam dates are listed in the course outline. I reserve the right to re-test you if a grade received is not consistent with your normal performance. You must show up on time to take your exams. If you are late to class to take an exam, and one of your classmates has already finished the exam and left the room, you will not be allowed to take it. In case of emergency, you must call within 24 hours of the exam in order to do a make-up. You are personally responsible for all missed material for quizzes and exams. I would suggest pairing up with a classmate so you have access to missed notes, etc.
Weekly Quizzes - Quizzes will be given in lab each week and will cover material from the previous lecture. There will be approximately 13 quizzes given throughout the semester and the lowest quiz grade will be dropped at the end of the semester. Each quiz is worth 20 points and will be given at the beginning of lab. You will not be given extra time to complete the quiz if you show up late, and no make-up quizzes will be given.

Landscape Design Project - The semester project will require you to do a basic landscape design for a given site. This project is worth 100 points and is to be turned in by the due date at the beginning of that lab. You will lose 30 points for every day the project is late if you do not turn it in on time. In addition, you will lose 40 points if it is not presented. The project will be graded based on the following criteria:

- A landscape design that is larger than 8.5” by 11” done using color. 15 points
- The plant material that you choose must be a combination of annuals, perennials, shrubs, trees, etc. When selecting plants, make sure you are aware of their desired sun exposure and their soil and moisture preferences. 30 points
- The design does not have to be drawn to scale, but you must show that you understand what the mature size of the plant will be and how far away it should be planted from other plants, buildings, etc. 20 points
- The design must come with a key. The key must be typed and needs to include the plant’s Latin name and common name; a description of the plant material to include mature height and width, and if appropriate, bloom time and color of blooms; and the USDA Hardiness Zone. 30 points
- You must use at least three sources. Consider reference books like Dirr’s Manual of Woody Plants and Still’s Manual of Herbaceous Plants. Magazines can be great resources for plant material and design ideas. Use the internet carefully because anyone can have a site! 5 points

Bedding Plant Project - During the first lab, you will be receiving bench assignments for lab. The bench that you are assigned will be the bench that you and your partners are responsible for. Every student at the bench is required to produce 3 flats of plants. Students can determine what they would like to grow, however, one of the flats needs to be a flowering annual. Your responsibilities include watering, transplanting, pulling weeds under the bench, monitoring pests, fertilizing, and any other problems that may arise over the course of the semester. Every person assigned to a particular bench must work together to make sure the job gets done. If your group needs assistance completing any given task, you must make arrangements with an instructor so the work gets done. If you do not clean up your bench and remove your plants from the greenhouse at the end of the semester, you will drop a letter grade. Your bench assignment grade is based on the following criteria:

- Excellent – 100 points – all of the flats that you produce are full flats with no missing plants. All plants are uniform in size, color and flower development (if applicable).
- Very Good – 90 points – You have 9 plants or less that are either missing or are not uniform in size, color and flower development (if applicable).
- Good – 80 points – You have between 10 and 18 plants that are either missing or are not uniform in size, color and flower development (if applicable).
- Average – 70 points – You have between 19 and 27 plants that are either missing or are not uniform in size, color and flower development (if applicable).
Below Average – 60 points – You have more than 27 plants that are either missing or are not uniform in size, color and flower development (if applicable).

Policies:

Make-up Policy - The instructor must be notified within 24 hours of an exam if it is going to be missed for an excused reason. (Excused absences include illness, death, transportation problems etc.). If this is done, the student will be able to make up the exam at the convenience of the instructor as long as proper documentation is provided. Otherwise, no make-up will be offered. Make up quizzes will not be allowed for any reason. You are personally responsible for all missed material for quizzes and exams. I would suggest pairing up with a classmate so you have access to missed notes, etc.

Cell Phone Policy: According to college policy, the ringer on cell phones must be turned off during lab and lecture. In addition, text messaging is not allowed during lab or lecture.

Lab Dress Code: You must wear sturdy shoes to lab. This means no open toe shoes, flip-flops or sandals.

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”.

Office of Student Services:

Accessibility Statement
Mercer County Community College is committed to ensuring the full participation of all students in its programs. If you have a documented differing ability or think that you may have a differing ability that is protected under the ADA and Section 504 of the Rehabilitation Act, please contact Arlene Stinson in LB 216 stinsona@mccc.edu for information regarding support services.

If you do not have a documented differing ability, remember that other student resources are available to all students on campus including academic support through our Learning Center located in LB 214.