



**Purpose:** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

**Course Title –** Horticulture

**Course Prefix and Number –** AGRI 1315

**Department -** Agriculture

**Division –** Life Sciences

**Course Type:** (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y  or N )

**Semester Credit Hours # : Lecture hours# : Lab/other hours #**      **3:2:2**

**Equated Pay hours for course –** 3 equated pay hours per course

**Course Catalog Description -** Growth, cultivation, and management of fruit and vegetable crops including temperature requirements, site selection, planting, fertilization, varieties, harvesting, and pest management, and basic care of ornamental plants. Study of techniques used in propagating fruits, vegetables, and ornamentals, including cuttage, layerage, budding, grafting, and seeding.

List Lab/ Other Hours
Lab Hours 2
Clinical Hours
Practicum Hours
Other (list)

**Prerequisites/Corequisites -** THEA reading and writing requirements met or current enrollment.

**Approvals – the contents of this document have been reviewed and are found to be accurate.**

Prepared by Sean Amestoy	Signature 	Date April 30, 2007
Department Head Dr. Dan Lawlor	Signature 	Date April 30, 2007
Division Chair Kim Raun	Signature 	Date 9-26-07
Vice President Dr. Ty Pate	Signature 	Date 10-1-07



**I. Topical Outline** – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non lecture instruction):

**Lecture:**

<b>TOPICAL OUTLINE</b>	<b>DEDICATED INSTRUCTIONAL TIME</b>
Vascular Plant Structure: Roots, Stems, Leaves, Flowers, Fruit	Two weeks
Seed Germination	One week
Care and Maintenance of Seedlings	One week
Asexual Propagation	Two weeks
Soils	One week
Compost	One week
Ornamental Plants	Two weeks
Garden Vegetable Care and Maintenance	Two weeks
Orchard Management/Care and Maintenance	Two weeks
Plant Growing Structures: Greenhouses, etc.	One week

- Laboratory:
1. Field Trip – Greenleaf Nursery
  2. Plug establishment
  3. Seed establishment
  4. Composting
  5. Greenhouse structures and plant containers
  6. Soil and organic media
  7. Asexual Propagation (may be any or all of the following)
    - A. Cuttings,
    - B. Layerings
    - C. Grafting
    - D. Budding
    - E. Bulbs
    - F. Corms
  8. Orchard field trip

## II. Course Learning Outcomes

Outcome/Objective	Assessment Method
1. Identify the structure of vascular plants such as roots, stems, leaves, and flowers; and understand the functions of roots, stems, leaves, and flowers.	1. Lecture exams and assignments
2. Describe knowledge regarding soil composition, soil nutrients, fertilization, and soil reactions and water filtration rates.	2. Lecture exams and assignments
3. Identify different shrubs such as azaleas, camellias, roses, and crepe myrtle; and understand the overall care and maintenance of garden plants.	3. Lecture exams and assignments
4. Understand and implement the methods for maintaining common houseplants regarding light, water, and temperature requirements, repotting, fertilization, and plant health.	4. Lecture exams and assignments
5. Demonstrate knowledge regarding various methods of asexual propagation. These methods may include but are not limited to: cuttings, layerings, grafting, budding, and propagation by bulbs and corms.	5. Lecture exams and assignments
6. Understand methods and care of seeds and seedlings, indoors and outdoors.	6. Lecture exams and assignments
7. Understand the differences regarding care and maintenance of different orchard type plants. These plants may include but are not limited to: peaches, plums, pears, apples, figs, blackberries, strawberries, and pecans.	7. Lecture exams and assignments

## III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

Practical Horticulture, Fifth Edition. 2002. L.W. Rice and R.P Rice. Prentice Hall, Upper Saddle River, NJ 07458. ISBN 0130946346

## IV. Suggested Course Maximum – 24

## V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.

The lecture room should include sufficient dry erase (or chalk) board for notes and illustrations, a computer with internet access and overhead computer projector, and a traditional overhead projector. Laboratory classroom required.

**VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course:**

Students are required to read the textbook chapters assigned to them. Throughout the semester, the students have 4 major lecture exams, attendance/participation, and assignments.

**Evaluative Procedures:**

Lecture grade makes up 2/3 of the final grade.

Lab grade makes up 1/3 of the final grade.

Lecture grade is determined by 4 major exams and class attendance/participation, each counting for 1/5 of the total lecture grade.

Lab grade is determined by participation and satisfactory completion of lab assignments.

**The grade classifications as outlined in the College Catalog are employed:**

<b>A</b>	<b>90 – 100% -Excellent</b>
<b>B</b>	<b>80 – 89% - Good</b>
<b>C</b>	<b>70 – 79% - Average</b>
<b>D</b>	<b>60 – 69% - Poor</b>
<b>F</b>	<b>Below 60% - Failure</b>
<b>W</b>	<b>Withdrawn</b>

**VII. Curriculum Checklist**

- **WECM Courses**

Include the following:

- SCANS Competencies (attach Program SCANS Checklist)
- WECM and other outcomes/objectives in space provided below.

- **General Education Courses (ACGM but non-Core)**

Include the following:

- Objectives/outcomes in space below.

- **WCJC Core Course**

Include the following:

- Basic Intellectual Competencies
- Exemplary Educational Objectives
- Perspectives (attach Core Curriculum Checklist)

Additional objectives/outcomes in space provided below.