



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 – Math & Science

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.

Prerequisites/Co requisites – THEA reading and writing requirements met or current enrollment

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

Prepared by Sean Amestoy

Date 11-22-11

Reviewed by department head Gene Bahnsen

Date 11-22-11

Accuracy verified by Division Chair Kevin Dees

Date 11/22/2011

Approved by Dean of Vocational Instruction or Vice President of Instruction
Leigh Ann Collins

Date 11-9-12



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):

| Topical Outline | Dedicated Instructional Time |
|--|------------------------------|
| 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

| Course Learning Outcome | Method of Assessment |
|--|--|
| <p>Students will:</p> <ol style="list-style-type: none"> 1. Identify the structure of vascular plants such as roots, stems, leaves, and flowers; and understand the functions of roots, stems, leaves, and flowers. 2. Describe knowledge regarding soil composition, soil nutrients, fertilization, and soil reactions and water filtration rates. 3. Identify different shrubs such as azaleas, camellias, roses, and crepe myrtle; and under the overall care and maintenance of garden plants. 4. Understand and implement the methods for maintaining common houseplants regarding light, water, and temperature requirements, repotting, fertilization, and plant health. 5. Demonstrate knowledge regarding various methods of asexual propagation. These methods may include but are not limited to: cuttings, layering, grafting, budding, and propagation by bulbs and corms. 6. Understand methods and care of seeds and seedlings, indoors and outdoors. 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. | <ol style="list-style-type: none"> 1. Lecture, exams, and assignments 2. Lecture, exams, and assignments 3. Lecture, exams, and assignments 4. Lecture, exams, and assignments 5. Lecture, exams, and assignments 6. Lecture, exams, and assignments 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 (for instructor's use) 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.

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:

A – 90 – 100% Excellent

B – 80 – 89% Good

C – 70 – 79% Average

D – 60 – 69% Poor

F – Below 60% Failure

W – Withdrawn

VII. Curriculum Checklist

- **Academic General Education Course** (from ACGM – but not in WCJC Core)
No additional documentation needed

- **Academic WCJC Core Course**
Attach the Core Curriculum Checklist, including the following:

- Basic Intellectual Competencies
- Perspectives
- Exemplary Educational Objectives

- **WECM Courses**
If needed, revise the Program SCANS Matrix & Competencies Checklist.