



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 – Plant Protection

Course Prefix and Number – AGRI 2313

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

Course Catalog Description -Principles and practices of controlling and preventing economic loss caused by plant pests. Includes instruction in entomology, plant pathology, weed science, crop science, environmental toxicology, and related environmental protection measures.

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

Prerequisites/Co-requisites – TSI Reading and Writing requirement met

Prepared by Sean Amestoy

Date 12-10-13

Reviewed by Department Head Sean Amestoy

Date 12-10-13

Accuracy Verified by Division Chair Kevin Dees

Date 1/28/2014

Approved by Dean or Vice President of Instruction *gghunt*

Date 1/29/14



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):

Any introductory entomology course should include at least the following topics/materials:

Overview of insects and related animals
 Growth and metamorphosis of insects
 Subclass Apterygota
 Orders Orthoptera and Isoptera

 Orders Hemiptera
 Orders Coleoptera
 Orders Trichoptera and Lepidoptera
 Orders Hymenoptera

Anatomy and physiology of insects
 Classification of insects
 Subclass Ptergota
 Orders Demoptera, Thysanoptera,
 Mallophaga and Anaplura
 Orders Homoptera
 Orders Neuroptera and Mecoptera
 Orders Diptera
 Ecological aspects and insect behavior

Collecting, Mounting and Preserving insects
 Insect Control

II. Course Learning Outcomes

Learning Outcomes Upon successful completion of this course, students will:	Methods of Assessment
1. Describe the economic importance of insect pests. 2. Have knowledge of the biology, ecology and morphology of selected insects. 3. Classify the more common insects to order and to common name. 4. Have collected, mounted, and identified at least 50 insect species. 5. Be able to recognize harmful and beneficial insect and will have knowledge of pest control programs.	1. Lecture, exams, labs, and assignments. 2. Lecture, exams, labs, and assignments 3. Lecture, exams, labs, and assignments 4. Lecture, exams, labs, and assignments 5. Lecture, exams, labs, and assignments

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

Fundamentals of Entomology. Sixth Edition. R. Elzinga. Pearson/Prentice Hall Publ. 2004.

Manual of Entomology and Pest Management. L.G. Higley, L.L. Karr, and L.P. Pedigo. Macmillian, Inc. 1989.

IV. Suggested Course Maximum - 25

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

Insect collecting equipment (nets, collection boxes, insect pins, killing jars, etc.)

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

4 major exams and class attendance – 66%

Lab grades - 34%

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.