



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 – Entomology

Course Prefix and Number – AGRI 2313

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

Course Catalog Description – The principal orders of insects, collection and identification, anatomy and physiology of insects related to control methods, and economic importance of common insect pests and control methods.

Prerequisites/Co requisites – THEA Reading and Writing requirements met or concurrent enrollment

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

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

Prepared by : Sean Amestoy	Signature 	Date 9/30/10
Department Head: Gene Bahnsen	Signature 	Date Sept 30, 2010
Division Chair: Kim Raun	Signature 	Date 10-8-10
Vice President of Instruction or Dean of Vocational Instruction: Dr. Ty Pate	Signature 	Date 10-12-10



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 | Anatomy and physiology of insects |
| Growth and metamorphosis of insects | Classification of insects |
| Subclass Apterygota | Subclass Ptergota |
| Orders Orthoptera and Isoptera | Orders Demoptera, Thysanoptera, Mallophaga and Anaplura |
| Orders Hemipter | Orders Homoptera |
| Orders Coleoptera | Orders Neuoptera and Mecoptera |
| Orders Trichoptera and Lepidoptera | Orders Diptera |
| Orders Hymenoptera | Ecological aspects and insect behavior |
| Collecting, Mounting and Preserving insects | Insect Control |

II. Course Learning Outcomes

Course Learning Outcome	Method of Assessment
1. Describe the economic importance of insect pests.	1. Lecture, exams, and assignments.
2. Have knowledge of the biology, ecology and morphology of selected insects.	2. Lecture, exams, and assignments
3. Classify the more common insects to order and to common name.	3. Lecture, exams, and assignments
4. Have collected, mounted, and identified at least 50 insect species.	4. Lecture, exams, and assignments
5. Be able to recognize harmful and beneficial insect and will have knowledge of pest control programs.	5. Lecture, exams, 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.