



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 - Introduction to Animal Science

Course Prefix and Number – AGRI1419

Department - Agriculture

Division – Life and Physical 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 # 4:3:2

Equated Pay hours for course - 4

Course Catalog Description - Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.

Prerequisites/Co-requisites - None

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

Prepared by Sean Amestoy

Date 1/30/15

Reviewed by Department Head Sean Amestoy

Date 1/30/15

Accuracy Verified by Division Chair Kevin Dees

Date 1/30/2015

Approved by Dean or Vice President of Instruction

Date



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

Relationships between domestic animals and man.

Beef cattle – breeds, reproduction, feeding, management, and marketing, diseases/disorders.

Dairy cattle – breeds, milking process, reproduction, management, feeding, and marketing.

Horses – breeds, reproduction, feeding, management, diseases, and parasites.

Swine, - breeds, reproduction, feeding, management, diseases, and parasites.

Sheep – breeds, reproduction, feeding and management.

Laboratory:

1. Land assessment: calculating acreage to determine usage regarding grazing, fencing, planting/seeding, etc.
2. Animal identification – Visual identification of-cattle, horses, swine, sheep.
3. Worming/Probiotics-administering wormer to cattle/horses; pour on, paste. To prevent and eliminate internal parasites. Administering probiotics to offset antibiotics and assist digestion.
4. Injectables- Administering necessary vaccines and antibiotics based upon age and visual assessment of livestock. Calculating dosages of Nuflour, Baytril, Banamine, 8-Way, etc.
5. Ear tagging: attaching ear tags for identification and fly repellence.
6. Evaluation: Visual assessment of livestock regarding conformation and overall health and wellness.
7. Reproduction system: Identifying reproductive structures.
8. Feeding: Assessment and evaluation of feeds and feedstuffs (roughages /concentrates), determination and calculation of amounts fed along with mineral and protein supplements.
9. Power point presentations-Livestock breed identification; Diseases/disorders identification, prevention, cures.

II. Course Learning Outcomes

Learning Outcomes	Methods of Assessment
<p>Upon successful completion of this course, students will:</p> <ol style="list-style-type: none"> 1. Apply scientific reasoning to investigate questions and utilize animal science tools to collect and analyze data and demonstrate methods. 2. Use critical thinking and scientific problem-solving to make informed decisions. 3. Communicate effectively the results of scientific investigations. 4. Explain the role of animal agriculture and its benefit to mankind. 5. Identify common livestock breeds and classes. 6. Define terminology specific to animal science disciplines. 7. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health. 8. Apply animal science principles by solving common problems. 9. Identify animal issues of interest to society, and related responsibilities. 	<p>Methods of assessment will be based on exams, lab activities and assignments.</p>

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

The Science of Animal Husbandry, Current edition. James Blakely and David Bade. Reston Publishing.

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.

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 average calculated as follows:

Hands on participation of activities: 40%

Power point presentations and assignments: 30%

Quizzes: 30%

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.