

Course Information

Course Title	Introduction to Animal Science
Course Prefix, Num. and Title	AGRI 1419
Division	Life Sciences
Department	Agriculture
Course Type	Academic General Education Course (from ACGM, but not WCJC Core)
Course Catalog Description	Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock. Laboratory activities will reinforce scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	4:3:2
Lab/Other Hours	
Equated Pay Hours	4
Lab/Other Hours Breakdown: Lab Hours	2
Lab/Other Hours Breakdown: Clinical Hours	Enter Clinical Hours Here.
Lab/Other Hours Breakdown: Practicum Hours	Enter Practicum Hours Here.
Other Hours Breakdown	List Total Lab/Other Hours Here.

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

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

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.

Course Learning Outcomes:

Learning Outcomes – Upon successful completion of this course, students will:

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.

Methods of Assessment:

Methods of assessment will be based on exams, lab activities and assignments.

Required text(s), optional text(s) and/or materials to be supplied by the student:

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

Suggested Course Maximum: 24

List any specific 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.

Course Requirements/Grading System:

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

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist