

AGRI 1419
Introductory Animal Science

Western Texas College

- I. Basic Course Information
 - A. Course Description: Scientific animal production and the importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of livestock.
 - B. Lab: The required laboratory activities will reinforce the lecture material.
- II. Student Learning Outcomes - Upon successful completion of this course, students will:
 - A. Explain the role of animal agriculture in providing benefits for mankind.
 - B. Identify common livestock breeds and classes.
 - C. Define terminology specific to animal science disciplines.
 - D. Demonstrate understanding of fundamental animal science principles including selection, reproduction, nutrition, and health.
 - E. Apply animal science principles by solving common problems.
 - F. Identify animal issues of interest to society, and related responsibilities.
 - G. Apply scientific reasoning to investigate questions and utilize animal science tools to collect and analyze data and demonstrate methods.
 - H. Use critical thinking and scientific problem-solving to make informed decisions.
 - I. Communicate effectively the results of scientific investigations.
- III. Course Requirements
 - A. Six Major Exams – 600 points
 - B. Research Paper – 100 points
 - C. Laboratory Attendance/Activity – 300 points
 - D. Comprehensive Final Exam – 200 points
- IV. Information On Books
 - A. Scientific Farm Animal Production: An Introduction (11th Edition)
ISBN-13: 978-0133767209 ISBN-10: 9780133767209
- V. Other Policies, Procedures and important dates. Please refer to the WTC [Catalog](#) for the following:
 - A. Campus Calendar
 - B. Final exam schedule
 - C. How to drop a class
 - D. Withdrawal information
 - E. Student Conduct/Academic Integrity
 - F. Class Attendance
 - G. Students with disabilities
- VI. Course Content and Tentative Schedule*

Week 1	Introduction
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Week 2	Chapter 1: Animal Contributions to Human Needs Chapter 2: An Overview of the Livestock and Poultry Industries
Week 3	Chapter 23: Issues in Animal Agriculture Exam #1 LAB: Animal Industry in Snyder, Texas
Week 4	Chapter 3: Red Meat Products Chapter 4: Poultry and Egg Products Chapter 5: Milk and Milk Products Chapter 6: Wool and Mohair Chapter 7: By-Products of Meat Animals LAB: Dairy Tour
Week 5	Exam #2 Chapter 8: Market Classes and Grades of Livestock, Poultry and Eggs LAB: College Farm – Iron Shots/Vaccinations
Week 6	Chapter 9: Visual Evaluation of Animals Exam #3 LAB: College Farm – Vaccinations
Week 7	Chapter 10: Reproduction Chapter 11: Artificial Insemination, Estrous Synchronization, and Embryo Transfer Chapter 19: Lactation Chapter 14: Mating Systems Chapter 12: Genetics Chapter 13: Genetic Change Through Selection LAB: Castration
Week 8	Exam #4 Chapter 20: Adaptation to the Environment LAB: Ear Notching
Week 9	Chapter 21: Animal Health Chapter 22: Animal Behavior LAB: Pill Bug Lab
Week 10	Exam #5 Chapter 15: Nutrients and Their Functions Chapter 17: Providing Nutrients for Body Functions LAB: Digestive System Models
Week 11	Chapter 16: Digestion and Absorption of Feed Chapter 18: Growth and Development LAB: Punnett Squares
Week 12	Chapter 24: Beef Cattle Breeds and Breeding Chapter 25: Feeding and Managing Beef Cattle Chapter 26: Dairy Cattle Breeds and Breeding

	Chapter 27: Feeding and Managing Dairy Cattle Chapter 28: Swine Breeds and Breeding Chapter 29: Feeding and Managing Swine LAB: Breed Associations
Week 13	Chapter 30: Sheep and Goat Breeds and Breeding Chapter 31: Feeding and Managing Sheep and Goats Chapter 32: Horse Breeds and Breeding Chapter 33: Feeding and Managing Horses LAB: Sheep Ranch Tour
Week 14	Chapter 34: Poultry Breeding, Feeding and Management Exam #6 LAB: Quail Research
Week 15	Animal Disease Research Papers Due, Review for Final Exam
Week 16	Final Exam

*The above schedule, policies, procedures and assignments in this course are subject to change.

Last Modified: August 21, 2019