

ANSI 4553

Sheep Science

Fall 2010

INSTRUCTOR: Dr. Gerald Fitch
109E Animal Science
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Sheep Center
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TEXTBOOK: The Sheepman's Production Handbook, Sheep
Industry Development, Inc., Englewood, Colorado

LECTURE: Tuesday, 8:00 to 8:50 A.M.
Thursday, 8:00 to 8:50 A.M.

LABORATORY: Tuesdays, 1:30 to 3:20 P.M.

COURSE OBJECTIVES:

- 1) Familiarize students with breeding, nutrition, physiology, management, and economics involved of sheep production.
- 2) Provide students with hands-on experience with management practices and producer examples of sheep production in Oklahoma.
- 3) Provide students with the knowledge to organize a sheep enterprise; including nutrition, breeding, economics, an annual timetable of necessary management practices.

CLASS ATTENDANCE:

Roll will be taken at all lectures and labs. IF 10% of the class is absent (unexcused) at the beginning of the class period a pop quiz WILL be given.

Only absences due to University-related activities or deaths in the immediate family will be excused.

GRADING:

90-100%	A
80- 89%	B
70- 79%	C
60- 69%	D
< 60%	F

Lecture	<u>Pts</u>
2 Exams (Lab & Lecture)	250
Final (Lab & Lecture)	200
Pop Quizzes	<u>50 -100</u>
Total Examinations	500 - 550
 Lab Assignments	
Sheep Project	<u>200</u>
 <u>Total Points</u>	 <u>700 – 750</u>

**ANSI 4553
SHEEP SCIENCE
TENTATIVE SCHEDULE**

DATE	LECTURE	LABORATORY
August 24	Introduction	No Class
August 26	Breeds	
August 31	Breeding I	Wool
September 2	Breeding II	
September 7	Breeding III	Project
September 9	Breeding IV	
September 14	Breeding V	Selection
September 16	Breeding Case Studies	
September 21	Handling, Facilities & Fencing	Howard
September 23	Nutrition I	
September 28	Nutrition II Due: Breeding Program (\$ included)	Unscheduled
September 30	Review	
October 5	Midterm	No Lab
October 7	No Class	
October 12	Nutrition III	Management
October 14	Reproduction I	
October 19	Reproduction II	Carcass
October 21	Reproduction III Due: Facilities, Fencing and Equipment (\$ included)	
October 26	Management I	Economic Analysis
October 28	Management II	

<u>DATE</u>	<u>LECTURE</u>	<u>LABORATORY</u>
November 2	Management III	Management
November 4	Management IV	
November 9	Management V	Breeding Soundness
November 11	Review	
November 16	Midterm 2	Shearing
November 18	Health Due: Management, Nutritional Program (\$ included)	
November 23	Marketing	Pregnancy Diagnosis
November 25	Thanksgiving	
November 30	Predator Control	Finalize Projects
December 2	Case Studies	
December 7	Case Studies	Project Discussions Due: Final Project Reports
December 9	Review for Final	
December 16	Final: 8:00 A.M. to 9:50 A.M.	

**ANSI 4553
SHEEP SCIENCE
SHEEP ENTERPRISE TERM PROJECT**

This project will be graded as follows:

Breeding Program	20 points
Evaluation	10 points
Facilities & Fencing	20 points
Evaluation	10 points
Nutritional Program	20 points
Evaluation	10 points
Final Written Report	110 points
Total	<u>200</u> points

The final written report will be due on December 7, 2010 in **Lab**.

Each student will complete the project on his/her own. The enterprise will consist of the development of a complete sheep operation. You are to assume that the property is owned "free and clear". All other capital improvements, breeding stock purchase, equipment, etc. will be 100% financed. **Each portion of the project turned in throughout the semester is to include capital costs, operating expenses and all expenses associated with that portion of the project.**

It is up to you to develop a feasible, profitable **commercial** sheep operation under these guidelines. It is now time to utilize all of the knowledge you have gained in your college careers, plus the realistic view to make the correct management and financial decisions. This project will be considered **PROFESSIONAL**. Treat this opportunity as if it were your own operation and the profit or loss of the operation were in your own hands.

ANIMAL SCIENCE 4553
COURSE PROJECT SAMPLE OUTLINE (NOT COMPLETE)

- I. Breeding Program
 - A. Objectives of breeding program
 - B. Complete description of program to be utilized
 - 1. Initial Animals
 - a. Source and costs
 - b. Numbers
 - c. Selection criteria
 - 2. Breeding Schedule - Years 1 through 5
 - a. Mating Schedule
 - b. Replacement Selection & Numbers
- II. Management and Nutritional Program
 - A. Reproduction
 - 1. Breeding and Lambing Schedule
 - B. Nutrition
 - 1. Feed Availability
 - 2. Utilization of Forage
 - a. Forage available – Acreage, Crop, and costs
 - b. Farming practices
 - c. Sheep rotation
 - 3. Supplementation
 - a. amounts and annual costs
 - C. Monthly Management Schedule
 - 1. Herd Health
 - 2. Vaccination Program
- III. Description of Facilities, Fencing and Equipment
 - A. Location
 - 1. Topography
 - 2. Proximity to supporting resources
 - B. Resources
 - 1. Water and Forage Availability
 - 2. Carrying Capacity
 - 3. Labor
 - 4. Facilities - (Current and Proposed)
 - 5. Fencing
 - C. Map of Ranch/Farm
- IV. Economic Analysis - 5 Year
 - A. Marketing
 - B. Amortization Schedules and Financing requirements
 - C. Annual Profit/Loss Statement
- V. Conclusion
 - A. Critique of System
 - 1. Assets
 - 2. Feasibility of Operation in Detail