

SYLLABUS  
PART I  
EDISON STATE COMMUNITY COLLEGE  
AGR 131S INTRODUCTION TO ANIMAL SCIENCE  
4 CREDIT HOURS

**COURSE DESCRIPTION**

Introductory study of the principles of routine husbandry of livestock production in agriculture. Topics will include selection, management practices, nutrition, animal anatomy, reproductive physiology, facilities management, and socio-ethical issues. Three hours of lecture integrated with two hours of lab activities each week. Lab fee.

**COURSE GOALS**

The student will:

Bloom's Level		Program Outcomes
1	1. Examine the size, scope, history, and key players in the areas of animal science.	3, 4
4	2. Analyze the domestication process of livestock and its origins and illustrate how livestock production has evolved over time.	1, 5
4	3. Explain the interactions between human demands and livestock production as well as the socio-ethical issues involved with livestock production.	2, 10
1	4. Identify the major species and breeds of livestock in the US and worldwide.	3
4	5. Classify the different food and fiber products produced from the animal industry.	3
2	6. Understand the basic production, reproduction, and feeding cycles of the primary production species in the US.	8, 10
3	7. Demonstrate knowledge and integrate concepts about the science of: animal feeding, growth, health, reproduction, breeding, genetics, and their practical application.	8, 10, 11
2	8. Compare and contrast different production and housing systems used for livestock production.	6, 10
1	9. Identify different careers in the animal science industry.	3
4	10. Analyze animal behavior and develop a plan for humanely handling livestock in a variety of situations.	2, 9, 10

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

**TOPIC OUTLINE**

1. History of livestock production, scope and importance
2. Environmental, social and consumer issues affecting livestock production

3. Food and fiber produced from the animal and poultry industries
4. Careers in Animal Science
5. Domestic animal reproduction, genetics and animal growth
6. Livestock digestive systems
7. Basic livestock feeding and nutrition
8. Lactation physiology and milk production
9. Animal adaptation, housing and the environment
10. Beef cattle breeds and production
11. Dairy cattle breeds and production
12. Swine breeds and production
13. Sheep and goat breeds and production
14. Horse breeds and production
15. Poultry breeds and production
16. Animal behavior