AG 20 Course Outline as of Fall 2000

CATALOG INFORMATION

Dept and Nbr: AG 20 Title: BASIC ANIMAL SCI
Full Title: Basic Animal Science
Last Reviewed: 2/13/2023

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00 Total Student Learning Hours: 157.50

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	AG 60

Catalog Description:
A survey of the livestock industry, supply of animal products and their uses. A special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the agriculture industry. Analyze the economic trends and career opportunities in animal agriculture.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 100A or ENGL 100.

Limits on Enrollment:

Schedule of Classes Information:
Description: A survey of the livestock industry, supply of animal products and their uses. A special emphasis on the origin, characteristics, adaptation and contributions of farm animals to the ag industry. Analyze the economic trends and career opportunities in animal agriculture. (Grade Only)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 100A or ENGL 100.

Limits on Enrollment:
Transfer Credit: CSU;UC. (CAN AG6)
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**		Effective:	Inactive:
	C	Natural Sciences	Fall 2018	
CSU GE:	**Transfer Area**		Effective:	Inactive:
IGETC:	**Transfer Area**		Effective:	Inactive:

CSU Transfer:	Transferable	Effective:	Fall 1981	Inactive:
UC Transfer:	Transferable	Effective:	Fall 1981	Inactive:

CID:
CID Descriptor: AG - AS 104 Introduction to Animal Science
SRJC Equivalent Course(s): ANSCI20

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
The student will:
A. Identify animal contributions to human needs.
B. List economically significant beef cattle, sheep, and swine breeds and areas of production.
C. Identify livestock body conformation and how it relates to function.
D. Identify life cycles and biotechnological principles of animal production.
E. Understand basic nutritional needs and feeding practices of scientific livestock production.
F. Name marketing strategies and market classification of livestock.
G. Demonstrate and understand animal behavior as it relates to health and performance.
H. In a group setting, discuss issues affecting consumer awareness to animal welfare, food safety and the environment.
I. Have reasonable accommodations made to perform all learning objectives regardless of physical and/or learning disabilities.
J. Collect and calculate data used to ensure scientifically-based management decisions.
K. Identify cultural contributions and ethnic influences to the animal industry.
L. Identify career opportunities and requirements for successful employment.

Topics and Scope:

1. Unit One: Introduction to Animal Agriculture

a. Importance of livestock to the World and United States
b. Economic importance to agriculture
c. Animal contribution to human needs
d. Industry issues and challenges
e. Ethnic contributions

2. Unit Two: Careers and Career Preparation in the Animal Sciences
   a. Career preparation
   b. Employment opportunities in animal production and management
   c. Employment opportunities in international agriculture
   d. Future opportunities
3. Unit Three: Overview of the Livestock Industry
   a. The beef cattle and dairy industry
   b. The swine industry
   c. The sheep and wool industry
   d. The poultry industry
   e. The horse industry
4. Unit Four: Evaluation and Performance Livestock
   a. Identifying external anatomy
   b. Evaluating type and conformation
   c. Perspective of carcass composition to the live animal
   d. Understanding carcass and performance data
5. Unit Five: The Animal Food Industry
   a. Food products and processing
   b. Consumption and marketing strategies
   c. Trends and future outlook
   d. Health and nutritional considerations
6. Unit Six: Reproduction
   a. Reproductive organs and their functions
   b. Animal breeding
   c. Mating systems
   d. Fertility
7. Unit Seven: Genetics
   a. Fertilization
   b. Gene modification and interactions
   c. Genetic improvement and variation
   d. DNA and RNA
8. Unit Eight: Nutrition
   a. Nutrients
   b. Feeds and feed composition
   c. Digestive systems
   d. Growth and development
9. Unit Nine: Animal Health
   a. Prevention and the environment
   b. Major diseases of farm animals
   c. Detecting unhealthy animals
   d. Treatment and care
10. Unit Ten: Issues Affecting the Animal Industry
   a. Animal behavior
   b. Animal welfare
   c. Advances in biotechnology
   d. Government and environmental concerns
   e. Food safety and consumer awareness

Assignment:

Students will be required to:
1. Reading asignments that will average minimum 30 pages per week.
2. Writing assignments, worksheet, study guide, class notes, and written essay exams.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Reading reports, Essay exams	Writing 20 - 30%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams, WORKSHEETS	Problem solving 10 - 10%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Performance exams	Skill Demonstrations 20 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion	Exams 40 - 60%

Other: Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%

Representative Textbooks and Materials:
"Scientific Farm Production," Robert E. Taylor, 5th Edition, ISBN 0-02-41921-0, Prentice Hall
"Livestock and Poultry Production," James R. Gillespie
"Animal Science and Industry," Acker, Cunningham