ANSCI 29 Course Outline as of Fall 2004

CATALOG INFORMATION

Dept and Nbr: ANSCI 29 Title: DAIRY CATTLE SCIENCE

Full Title: Dairy Cattle Industry/Dairy Cattle Science

Last Reviewed: 1/25/2021

| Units | | Course Hours per Week | • | Nbr of Weeks | Course Hours Total | |
|---------|------|-----------------------|------|--------------|---------------------------|-------|
| Maximum | 3.00 | Lecture Scheduled | 2.00 | 17.5 | Lecture Scheduled | 35.00 |
| Minimum | 3.00 | Lab Scheduled | 3.00 | 17.5 | Lab Scheduled | 52.50 |
| | | Contact DHR | 0 | | Contact DHR | 0 |
| | | Contact Total | 5.00 | | Contact Total | 87.50 |
| | | Non-contact DHR | 0 | | Non-contact DHR | 0 |

Total Out of Class Hours: 70.00 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 64

Catalog Description:

History, development and projections of the dairy industry. General information on the economics of dairying, facts, trends, selection, culling, fitting, showing, judging, pedigrees, feeding and basic management skills; employment opportunities and requirements.

Prerequisites/Corequisites:

Recommended Preparation:

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Schedule of Classes Information:

Description: General information on the economics of dairying, facts, trends, selection, culling, fitting, showing, judging, pedigrees, feeding and basic management skills; employment opportunities and requirements. (Grade Only)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit: CSU; UC. (CAN AG28)

Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree: Area Effective: Inactive: CSU GE: Transfer Area Effective: Inactive:

IGETC: Transfer Area Effective: Inactive:

CSU Transfer: Transferable Effective: Fall 1981 Inactive:

UC Transfer: Transferable Effective: Fall 2001 Inactive:

CID:

CID Descriptor: AG - AS 112L Dairy Cattle Industry / Dairy Cattle Science

SRJC Equivalent Course(s): ANSCI29

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

The student will:

- A. Discuss the historical development of the dairy industry.
- B. Explain the importance of the dairy industry in California and the United States.
- C. Identify dairy breeds, origin, adaptation and production.
- D. Discuss the opportunities and requirements of the dairy business.
- E. Analyze production, breeding and management records.
- F. Identify the parts of the cow and their relationship to form and function.
- G. Define the nutritional needs and proper feeding techniques.
- H. Analyze pedigrees, linear scores, and production records.
- I. Demonstrate grooming, fitting and showmanship skills.
- J. Demonstrate management skills in dehorning, vaccinating, castrating, hoof trimming and teat removal.
- K. Identify cultural influences on the dairy industry.
- L. Have reasonable accommodations made to perform all learning objectives regardless of physical and/or learning disabilities.
- M. Practice selection and judging skills.
- N. Analyze the concern of animal rights and importance of educating the general public.
- O. Discuss career opportunities and requirements for successful employment.

Topics and Scope:

- 1. Unit One: Introduction to the Dairy Industry
 - a. History of dairying including the contributions of ethnic groups

- b. Economic importance to agriculture
- c. Past, present and future trends in the dairy industry
- d. Milk and by-product consumption and trends
- e. Inventions and new discoveries
- 2. Unit Two: Opportunities and Careers in the Dairy Industry
 - a. Employment in production, processing and marketing
 - b. Degree and skill development requirement
- 3. Unit Three: Essentials of Success in the Dairy Business
 - a. Financial needs to operate a dairy
 - b. Sources of feed, animals and equipment
 - c. Selection and management of the labor force
 - d. Filing of numerous environmental and county reports
- 4. Unit Four: Dairy Breeds, Origin and Adaptation
 - a. Bos Taurus and Bos Indicus
 - b. Production of each breed
 - c. Rank in popularity and demand
 - d. Advantages and disadvantages of each breed
- 5. Unit Five: Development of a Dairy Herd
 - a. Developing a dairy enterprise
 - b. Selecting a breed
 - c. Locating a market for milk
 - d. Understanding quota, base and overbase milk
- 6. Unit Six: Managing a Dairy Herd
 - a. Selecting animals
 - b. Understanding pedigree and production records
 - c. Feeding dairy animals
 - d. Dehorning, vaccinating, castrating, teat removal and other treatment skills
- 7. Unit Seven: Reproductive Management
 - a. Advantages and limitations
 - b. Synchronizing cows and heifers
 - c. Using a bull in natural service
 - d. Embryo transfer
- 8. Unit Eight: Care and Management of Calves
 - a. Prenatal care
 - b. From birth to weaning
 - c. Feeding, vaccinating and general

Assignment:

Assignments will be taken from periodicals, handouts, and texts.

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, Lab reports, Essay exams

Writing 10 - 30%

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

Lab reports, Quizzes, Exams

Problem solving 20 - 30%

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

Class performances, Performance exams

Skill Demonstrations 10 - 30%

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

Multiple choice, True/false, Matching items, Completion

Exams 30 - 60%

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

None

Other Category 0 - 0%

Representative Textbooks and Materials:

Ensminger, M.E. Dairy Cattle Science

The Interstate Publishers, Fourth Edition

Beth, Dickinson, et.al. Dairy Cattle: Principles, Practices,

Problems, Profits Lea and Febiger