

Discipline: Agriculture	Sub-discipline: Animal Science
General Course Title: Dairy Cattle Selection and Evaluation	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: The selection of dairy cattle on type, conformation and the correlation between type and production; pedigree evaluation, animal analysis, linear classification and body condition scoring; written and oral evaluation. Laboratory required.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Identify the major dairy breeds. • Identify the physical anatomical features of the dairy animal. • Evaluate and understand the scorecard for type selection, linear evaluation, body conditioning, animal analysis, and pedigree evaluation. • Describe the ideal physical traits of the cow as related to form and function. • Describe and compare dairy animals with proper terminology in both oral and written evaluation. • Select classes of animals appropriate for learning development. • Develop critical thinking, communication and leadership skills. • Develop confidence and memory for articulation of reasoning in evaluation. • Discuss the importance of dairy selection and evaluation to career opportunities. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Introduction to Evaluation <ol style="list-style-type: none"> a. Importance to the industry b. Importance to the producer c. Importance to related careers d. Career enhancement 2. Dairy Breeds <ol style="list-style-type: none"> a. Common European and Asian breeds b. Characteristics of each major breed c. Desirable and undesirable traits d. Popularity and location 3. Dairy Anatomy <ol style="list-style-type: none"> a. Major external anatomical traits b. Physical strengths and weaknesses c. Location and characteristics of each part d. Function of traits 4. Type Evaluation <ol style="list-style-type: none"> a. Dairy type scorecard b. Dairy versus beef c. Round and flat bone d. Angularity and openness <p>Dairy Cattle Selection and Evaluation (Content Continued)</p>	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

5. Pedigree Evaluation
 - a. Pedigree terminology
 - b. Type classification
 - c. Predicted transmitting abilities
 - d. Evaluating individual pedigrees

6. Body Conditioning
 - a. Dairy conditioning scorecard
 - b. Condition scoring of lactating and dry cows
 - c. Relationship of condition to conception and pregnancy
 - d. Managing the growth of heifers

7. Linear Evaluation
 - a. Linear descriptive traits
 - b. Type classification
 - c. Numerical ratings
 - d. Linear values in mating

8. Animal Analysis
 - a. Relationship to type evaluation
 - b. Analyzing programs
 - c. Choosing a system
 - d. Selection of bulls

9. Oral and Written Evaluation
 - a. Organization of presentation
 - b. Written evaluation
 - c. Oral evaluation
 - d. Power of expression

10. Acquisition and Marketing of Dairy Animals
 - a. Selecting dairy animals
 - b. Animal appraisal
 - c. Registered vs. grade animals
 - d. Benefits of type and production information

Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
---	---

Typical Textbooks, Manuals, or Other Support Materials
Dairy Cattle Judging Techniques 4th ed., Trimmerger, George, et al., Prentice Hall, ISBN 0-13-196007-5025
Holstein-Freisian Judging Manual, Brattleboro, Holstein-Freisian Association of America (pamphlet)
Hoard's Dairyman. (magazine)

Statewide Articulation: CPSLO-DSCI 241, CSUF-A SCI 81, UCD-ANS 21/22, other universities as lower division elective

FDRG Lead Signature:

Date:

Mark E. Bender, PhD CSU Stanislaus

[For Office Use Only]	Internal Tracking Number