MODESTO JUNIOR COLLEGE

COURSE OUTLINE

DIVISION: Agriculture, Environmental Sciences & Technical Education
DIV./DEPT. NO: 11/3000

PREFIX/NO.: AN-SC 227 COURSE TITLE: Advanced Dairy Cattle Selection and Evaluation

Formerly listed as: ____________________________  Date Changed: ____________________________

II. ALSO OFFERED AS:

Div: ____________________________ Prefix/No.: ____________________________ Title: ____________________________

Div: ____________________________ Prefix/No.: ____________________________ Title: ____________________________

III. COURSE INFORMATION:

Units: 3 or Variable Units: □ X=1/2 unit  □ A=1 unit  □ B=2 units  □ C=3 units  □ D=4 units
Total Hours: Lecture: 35  Lab: 52.5
Explain Other hours: ____________________________  Other: ____________________________

Transfer Credit:  CSU - □  UC - □  CAN - □
General Ed:  AA/AS Area: ____________________________  CSU GE Area: ____________________________  IGETC Area: ____________________________
Offered Only:  Fall - □  Spring - □  Summer - □  Eve - □  Not offered every semester - □

IV. PREREQUISITE(S)/COREQUISITE(S)/RECOMMENDED FOR SUCCESS:

(Please check all that apply and list below. Also attach appropriate documentation forms)
Prerequisite (P) - ☒  Corequisite (C) - □  Recommended for Success (R) - □
Limitation on Enrollment (L) - □
AN-SC 221

V. CATALOG DESCRIPTION:

Advanced study of dairy conformation as related to the function of milk production. Evaluation of dairy cattle using production data, pedigrees, and live animal evaluation. Particular emphasis will be placed on linear classification and selective mating. Oral interpretation of these evaluative criteria and formal reasoning presentations will be required. Evaluation of milk and milk products will be required as well.

VI. FIELD TRIPS REQUIRED?  Yes ☒  No □  Maybe □

VII. GRADING:  A-F Only ☒  CR/NC Only □  CR/NC Option □  Non-Graded □

VIII. REPEAT PROCEDURES:  Credit: No □  *Yes ☒  Maximum Completions: 2  Maximum Units: 6
Non-Credit: No □  Yes □  Maximum Completions: ____________________________

*(If course is repeatable, attach a memo with the appropriate justification.) Please see course objectives.

IX. EXPLAIN FEE REQUIRED: ____________________________

rev: 5/2002
X. _PREREQUISITE SKILLS_
Before entering the course, the student will be able to:

A. Identify the major dairy breeds.
B. Identify the physical anatomical features of the dairy animal.
C. Evaluate and illustrate the use of the dairy scorecard for type selection, linear evaluation, body conditioning, and animal and pedigree analysis.
D. Describe the ideal physical traits of the cow as related to form and function.
E. Describe and compare dairy animals with proper terminology in both oral and written evaluation.
F. Select classes of animals appropriate for learning development.
G. Develop critical thinking, communication, and leadership skills.
H. Develop confidence and memory for articulation of reasoning in evaluation.
I. Discuss the importance of dairy selection and evaluation to career opportunities.

XI. _OBJECTIVES_ (Expected outcomes for students)
Upon successful completion of the course, the student will be able to:

_First Course Completion:_
A. Identify desirable/undesirable traits of dairy cattle as related to genetic improvement and industry production standards.
B. Evaluate replacement dairy heifer classes as related to potential improvement in milk production.
C. Interpret orally, using critical reasoning, the comparison of dairy animals in formal classes of dairy including performance data and pedigree evaluation.
D. Identify, evaluate, and describe dairy cattle based on the official dairy cattle scorecard.
E. Identify genetic type and selection criteria for dairy cattle performance evaluation.

_Second Course Completion:_
A. Identify off-flavors of milk and milk products.
B. Differentiate between real and artificial dairy products.
C. Identify and grade different varieties of cheese.
D. Develop the ability to grade fluid processed milk.
E. Enhance by supervised repetition and practice within class periods. (Excerpted from Ed Code 58161)
F. Active participatory experience in individual study or group assignments is the basic means by which learning objectives are obtained. (Excerpted from Ed Code 58161)

* = Multi-cultural objective or content item
XII. CONTENT

A. Dairy type as related to milk production
B. Use of comparative and descriptive technology
C. Selection of dairy cattle on a visually comparative basis
D. Evaluation of production data and relative value of type selection
E. Linear evaluation of dairy cattle
F. Analysis and evaluation of dairy cattle pedigrees as a selection tool
G. Oral interpretation of the above evaluative criteria
H. Milk quality and dairy products evaluation

XIII. TEACHING METHODS

A. Methods to achieve course objectives:
   1. Instructor lecture and visual aids.
   2. Class discussion and problem-solving performed in class.
   3. Use of slides, filmstrips, and videotapes to supplement problem-solving activities.
   4. Quiz and examination review performed in class.
   5. Field observations and field trips.

B. Typical assignments used in achieving learner independence and critical thinking:
   1. Writing assignments emphasizing descriptive, analytical, and evaluative skills.
   2. Preparation and delivery of oral reasons for classes of dairy cattle judged.
   3. Participation in dairy cattle judging competitions.

XIV. TEXTBOOKS AND OTHER READINGS (Typical)

A. Required texts:

B. Other readings:
   Linear Classification System – Holstein Association
   The Holstein’s Foundation Dairy Judging Workbook

XV. SPECIAL STUDENT MATERIALS (i.e., protective eyewear, aprons, etc.)

None

* = Multi-cultural objective or content item

Rev 5/2002
XVI. METHODS OF EVALUATING STUDENT PROGRESS

A. Participation in state and local dairy judging competitions.
B. Evaluation of oral and written reasons on classes judged.
C. Organizing and officiating local 4-H and FFA judging contests.

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