OVERVIEW
The following information will appear in the 2010 - 2011 catalog

ANSC-227 Advanced Dairy Cattle Selection & Eval 3 Units

Advisory: Before enrolling in this course, students are strongly advised to have completed the ANSC 220, ANSC 221 and/or completed another class in livestock evaluation.

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. Course is repeatable - two completions allowed. Field trips are required. Course is applicable to the associate degree.

LEARNING CONTEXT
Given the following learning context, the student who satisfactorily completes this course should be able to achieve the goals specified in Section III, Desired Learning:

A. COURSE CONTENT

1. Required 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 pedigree as a selection tool
   G. Oral interpretation of the above evaluative criteria

2. Required Lab Content:

   A. Applying linear scores on dairy cows for each of 18 traits
   B. Applying the scoring system to judging classes to determine the official class placing.
   C. Orating the student placing using the MJC/Cornell Notes outline to guest judges to score the students contest style.
   D. Discuss the interpretation of the body parts to the scorecard and there weightings.
   E. At field trip opportunities, participate with guest presenter to different ways of evaluating specific parts.
   F. Learn the correlation values of phenotype to milk production and include them in evaluation processes.
   G. Critical thinking, poise, personal presentation and leadership control at all lab activities and field trips to enhance marketability.
3. **Recommended Content:**

   A. Milk quality and dairy products evaluation
      1. Identify off-flavors of milk and milk products
      2. Differentiate between real and artificial dairy products.
      3. Identify and grade different varieties of cheese
      4. Develop the ability to grade fluid processed milk
      5. Enhance by supervised repetition and practice within class periods
      6. Active participatory experience in individual study or group assignments is the basic means by which earnings are obtained.

B. **ENROLLMENT RESTRICTIONS**

   1. **Advisories**

      Before enrolling in this course, students are strongly advised to have completed the ANSC 220, ANSC 221 and/or completed another class in livestock evaluation.

   2. **Requisite 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.

C. **HOURS AND UNITS**

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3 Units

D. **METHODS OF INSTRUCTION (TYPICAL)**

   Instructors of the course might conduct the course using the following method:

   1. Information and concepts presented through lectures, demonstrations, visual aids and workbook.
   2. Small group discussion upon completion of evaluating a class or animal using the scorecard.
   3. Application of various methods of notetaking, and oral set-up procedure for reason giving.
   4. Repetitive sequences allowing a level of confidence to be reached.
   5. Field trips to observe the varying degrees of traits and applying the evaluation to a judging scorecard.
   6. The use of industry experts in guest lectures furthing advanced knowledge of both phenotype and genotype.
E. ASSIGNMENTS (TYPICAL)

1. EVIDENCE OF APPROPRIATE WORKLOAD FOR COURSE UNITS

   Time spent on coursework in addition to hours of instruction (lecture hours)

   A. Weekly practice including scorecard and oral reasons
   B. Preparation for bi-weekly quizzes
   C. Internet search for current dairy show winners
   D. Discuss and evaluate in relation to scorecard judging, the prior labs class placings
   E. Use of lecture content transformed to lab use when evaluating dairy classes.
   F. Field trip participation for additional student growth and development in relation to the dairy industry

2. EVIDENCE OF CRITICAL THINKING

   Assignments require the appropriate level of critical thinking

   1. Evaluation, placing, and discussion of classes of various dairy breeds heifers and cows. Beginning of semester 20 minutes allowed to complete class working down to 12 minutes by the end of the semester

   2. Officiate a small contest for 4-H or FFA Dairy contest supplying the official placings, cuts and listening to reasons

   3. Give constructive criticism to participants for improvement of dairy cattle judging and oral interpretation as well as providing a scoring value

   4. Explain your placing of a class of dairy animals to a group of contestants using the scorecard, proper format, correct terminology, and voice tone and fluctuation.

F. TEXTS AND OTHER READINGS (TYPICAL)


2. Other: Other materials as acquired by the instructor from the Holstein and Jersey National Associations, U.S.D.A. materials, and other relevant information published in industry periodicals.

III. DESIRED LEARNING

A. COURSE GOAL

   As a result of satisfactory completion of this course, the student should be prepared to:

   Identify, evaluate, compare and describe dairy cattle based on the official dairy cattle scorecard while applying it to individual animals or to a group of animals. To evaluate replacement dairy heifers as related to potential herd improvement for milk production and/or type.

B. STUDENT LEARNING GOALS

   Mastery of the following learning goals will enable the student to achieve the overall course goal.

1. Required Learning Goals

   Upon satisfactory completion of this course, the student will be able to:

   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.

2. **Lab Learning Goals**

   Upon satisfactory completion of the lab portion of this course, the student will be able to:

   a. move and observe cattle safely and correctly for the best view of various traits being evaluated.

   b. Accurately measure, compare and evaluate in accordance to the official scorecard the many traits that are included in the scoring process in a competitive environment.

   c. Use critical reasoning, interpret orally, and evaluate others opinions in regards to the interpretation of students use of the dairy scorecard on a class for class basis.

IV. **METHODS OF ASSESSMENT (TYPICAL)**

   A. **FORMATIVE ASSESSMENT**

      1. Daily participation in lecture and laboratory activities.

      2. Periodic evaluation in an actual competition at a Dairy Judging contest. ie Great Western, Fresno State, and State Holstein/Jersey Show.

      3. Quizzes and practical examinations from lecture and laboratory assignments.

   B. **SUMMATIVE ASSESSMENT**


      2. Final exam for all lecture and laboratory materials presented, discussed and applied.