

Dairying
ANS 313
Summer 1 2016

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Prerequisites

ANS 1319: Introduction to Animal Science

Student Learning Outcomes

1. Describe the characteristics of the dairy industry including recognizing the major dairy breeds in the U.S, characteristics of dairy herds and practices, and marketing of dairy products.
2. Understand how dairy cattle are visually and functionally evaluated.
3. Describe how dairy herds are improved through genetic selection.
4. Understand components and characteristics of dairy feed and feeding of young calves, dry cows, and lactating dairy cows.
5. Understand current strategies and difficulties in breeding dairy cows.
6. Describe the anatomy of the udder, milk synthesis, milk letdown, and composition of milk.

Course Description

Dairying (ANS 313) will be broadly broken into 6 sections.

- I. Dairy industry overview
- II. Genetic Improvement and selection
- III. Nutrition
- IV. Reproduction
- V. Lactation and milking
- VI. Health and well-being

Materials – Textbooks:

Required Material:

All required material will be provided as handouts in PDF format including extension publications, popular press articles, and lecture notes created by me. Also, Dr. Jeffrey Stevenson, Professor of Animal Science at Kansas State University, has graciously provided me with materials that he uses in a dairy science class taught at Kansas State University. I would like to thank him and those before him that put this material together.

This manual has been used by thousands of students at Kansas State University during the past 35 years. It contains numerous contributions by current and former faculty including Drs. Edward P. Call, J. Richard Dunham, Charles L. Norton, James L. Morrill, and John E. Shirley. As current instructor, I thank my predecessors for their contributions and trust that the reader will find enjoyment by learning more about the magic and wonder of the U.S. dairy cow and the dairy industry.

J. S. Stevenson

Recommended Textbook: This may be helpful by providing more information, figures, and photos. I will use this extensively to provide the notes and course will follow somewhat the format of the book.

Dairy Cattle Science (4th Ed.). Howard Tyler and M.E. Ensminger. Prentice Hall. 2005.

Course Overview

This course is 5 weeks in duration beginning June 6th and ending July 8th.

1. Week 1 (June 6th-June 12th)
 - a. Dairy Industry Introduction and Overview
2. Week 2 (June 13th – June 19th)
 - a. Genetics and Nutrition
3. Week 3 (June 20th – June 26th)
 - a. Nutrition and Reproduction
4. Week 4 (June 27th – July 3rd)
 - a. Milking and Lactation
5. Week 5 (July 4th – July 8th)
 - a. Health and well-being

For Each Week:

Each week will have the same format and contain the following heading or subheadings:

1. Topics
2. KSU handout
3. Current topic
4. 2 Discussion posts
5. Question and Answer

6. Quiz

Topics

For each week there will be 4-5 topics (20-25 total for the entire course). Each topic will be either power point lecture notes, an article or reading assignment, homework assignment etc. Each topic section will include at the beginning the objectives or ideas that you should focus on.

KSU Handout

The instructions and objectives in the topic will tell you where and when to use the KSU handout. It will either be the primary material for the specific topic, supplemental material, or may not be used at all.

Current Topic

A short 2-3 page paper will be provided from a current dairy publication. You are expected to read that each week.

Discussion Post

There will be 2 discussion topics per week.

1. You must post an original or primary response to each topic (there will be 2) by **Friday at 11:59 P.M.** of that week (unless directed otherwise). The original posts will be worth 20 pts each.
2. You must respond or comment to **2 different responses for each topic by Wednesday 11:59 P.M.** of the following week. Each response to an original post will be worth 15 points for a total of 60 per week.
3. I am looking for posts that are engaging and show effort and thought. I am thinking 3-4 sentences but there is no limit. For example, posts will be graded according to the following:
 - a. Does the post show thought and understanding of an idea or concept that will allow others to further elaborate and become more connected with the subject?
 - b. Does the post raise an alternative viewpoint or insight that is different or unique that allows others to think of an idea or principle in a different way.

Posts that appear to show lack of effort or thought will result in partial or no credit.

Discussion Post Rules

- i. If needed I may suggest or ask you to alter a post that is inappropriate or inadequate in order to enhance the learning experience. In addition, I may also add a post or respond to other post to contribute to the discussion.
- ii. Remember to be civil and cordial to others and their opinions. It is OK to disagree or provide an alternative view but it can be done in a positive manner that is not personal or combative. If needed I reserve the right to take action against posts that I deem inappropriate including removal of the post, loss of points, and/or up to removal from the class.

Question and Answer

If you have any questions concerning the material, concepts, or anything else concerning the class enter your post in this section. Send me an email that you submitted the question and I'll respond. This way others may benefit and I don't have to repeat the answer quite as often.

Quiz

An online quiz will be available each week over the material for that week and will be due **Monday morning 8:00 A.M.** of the following week.

Exams

Two exams will be given through the course. It will be a blend of online and take home. The first exam will cover the sections 1-3 and the second exam will cover sections 4-6.

Exam 1 = June 21st

Exam 2 = July 8th

Labs/Field Trips: More information will be given.

Grading

Points:

Message board original posts	pts.
Message post response	pts.
Field Trip Assignment	pts.
Quizzes	pts.
Exams	<u>pts.</u>
	points

Late Work: 10% reduction for every day that it is overdue

Grades:

- A: 90% +
- B: 80 – 89%
- C: 70% – 79%
- D: 60% – 69%
- F: 59% and below

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures

Academic Honesty

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including (but not limited to) receiving a failing grade on the assignment, the possibility of failure in the course and dismissal from the University. Since dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. In **ALL** instances, incidents of academic dishonesty will be reported to the Department Head. Please be aware that academic dishonesty includes (but is not limited to) cheating, plagiarism, and collusion.

Cheating is defined as:

- Copying another's test or assignment
- Communication with another during an exam or assignment (i.e. written, oral or otherwise)
- Giving or seeking aid from another when not permitted by the instructor
- Possessing or using unauthorized materials during the test
- Buying, using, stealing, transporting, or soliciting a test, draft of a test, or answer key

Plagiarism is defined as:

- Using someone else's work in your assignment without appropriate acknowledgement
- Making slight variations in the language and then failing to give credit to the source

Collusion is defined as:

- Collaborating with another, without authorization, when preparing an assignment

If you have any questions regarding academic dishonesty, ask. Otherwise, I will assume that you have full knowledge of the academic dishonesty policy and agree to the conditions as set forth in this syllabus.

University Specific Procedures

ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Go to the following email address: StudentDisabilityServices@tamuc.edu

Go to the following link: [Student Disability Resources and Services](#)

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See *Code of Student Conduct from Student Guide Handbook*). Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum, go to the following link: <http://www.albion.com/netiquette/corerules.html>.