

**ANSC 474**  
**Dairy Production & Management**  
**Fall 2011**

**Instructor:** Wes Schager      **Email:** wschager@csuchico.edu  
**Office:** Plumas 203A      **Phone:** 898-6250

**Office Hours:** Tues/Thurs. 9:00-9:30 am; Thurs 10:30 am - 1:30 pm or by appt.

**Schedule:** *Lecture:* Tues/Thurs 8:00-8:50 Plumas 312; *LAB:* Thurs 2:00-4:50, Farm 002

**Text:** Most reading will be assigned from pertinent, timely trade articles that will be provided on Vista or via a link to a website. It is your job to check vista for assigned readings. This material will be required reading.

**Course Content:**

Prerequisites for this course are ANSC 101 (Introduction to Animal Science), ANSC 301 (Intermediate Animal Systems), or ANSC 274 and a willingness to learn about dairies!

The primary objective of this course is to allow the student to understand what happens daily on all areas of a dairy. Following an introduction to the dairy industry worldwide, within the United States and in California, we will focus on dairy science at the individual dairy level.

Beginning with the general life cycle of the cow, we will discuss in detail each part of her life cycle. Power Point presentations with many photos illustrating real examples will be used. Laboratories will be used to gain hands-on experience with topics presented in lecture. There are a couple laboratory periods scheduled to tour nearby dairy facilities, each providing unique examples of presented topics.

**Course Grading:**

*Remember—students earn grades, teachers merely assign them, do your best at all times.*

Attendance at lectures and labs are required due to the nature of this course. Midterms will cover all material presented up to the day of the midterm. The final is cumulative.

Labs	15 @ 20 pts	300 pts
Mid-Term	2 @ 100 pts	200 pts
Current event		25 pts
Paper		100 pts
Final ( <i>cumulative</i> )		100 pts
<hr/>		
<b>Total</b>		<b>725 points</b>

**Grade Scale:**

A ≥ 93%	B ≥ 83%	C ≥ 73%	D ≥ 60%
A- ≥ 90%	B- ≥ 80%	C- ≥ 70%	F < 60%
B+ ≥ 87%	C+ ≥ 77%	D+ ≥ 67%	

**Paper**

The dairy industry is very dynamic and has many areas to explore and learn. It is important to have the ability to express yourself clearly and concisely from the time you enter the job market. Any job you find whether or not it is in the dairy industry will require you to problem solve. You need to be able to research out potential solutions and convey these potential solutions to your boss/client not only verbally but also in written form.

Your semester report will consist of a 3 page written paper (typed/double spaced/12pt font) and a 4 minute verbal report on a dairy industry topic. It should be relevant to the class, and can cover a wide variety of topics: milk processing, environmental regulations, advancements in genetics, diseases, nutrition, waste management, marketing, state of the industry, lobbying groups, and associations are just a few ideas. Please be creative and choose a topic that interests you and find something that has current, information available. Be sure to cite all your sources that you use. This project will hopefully allow you to learn new things in the dairy industry from your peers.

I will be grading very hard on grammar and punctuation as well as content. This is college and I expect quality work. I would, at a minimum, have a couple people proof read your paper prior to turning it in to me.

**Current event**

Every morning of lecture we will start with a current dairy event. I will assign the day of the semester that you will be responsible for a current event topic. It is your job to come to class prepared with some current event. You will have to get up in front of your peers and clearly discuss the event. No power points. You are responsible for emailing me your current event summary so I can post on Vista for the class. These are worth 25 points. *Information from current event topics is fair game for midterms.*

**Course Policies**

- **Students are expected to turn off cell phones and other electronic devices during class time** (taking notes directly into a laptop computer is acceptable). If I catch you not paying attention due to texting during class or lab I reserve the right to excuse you from lecture/lab.
- Inappropriate or disruptive behavior will not be tolerated, nor will lewd or foul language.
- The class follows the standards set in the *Code of Students Rights and Responsibilities (EM 96-38)* and students are subject to disciplinary action for violation of that code.
- Cheating is not tolerated. Anyone suspected of such act will be reported to student judicial affairs and receive an F for the course.
- Be respectful and considerate of other students
- Be respectful and considerate of the instructors and guest speakers.

**Please review the following document for course policies common to all ag classes:**  
[http://www.csuchico.edu/ag/\\_assets/documents/syllabi/COACCommonSyllabusPolicies.pdf](http://www.csuchico.edu/ag/_assets/documents/syllabi/COACCommonSyllabusPolicies.pdf)

**Lecture & Lab Schedule-** schedule/topics subject to change

Date	D	Week	LECTURE	CURRENT EVENT	LAB
8/23	T	1			Unit overview; product assignment: terms; survey
8/25	Th		Dairy Industry Overview		Assign milking time.
8/30	T	2	Lifecycle of dairy animal - review		
9/1	Th		Milk Pricing		Dr. Joe Korn – Dairy production in Israel
9/6	T	3	Supply management		
9/8	Th		Cost of production		Milk Pricing: speaker Don Shippelhoue CDFA
9/13	T	4	Calf topics		
9/15	Th		Heifer topics		Dr. Michael Karle – Calf lab
9/20	T	5	Org. Dairy – pasture mgmt, grazing		
9/22	Th		Org Dairy – current research		Grazing management/techniques – Dr. C. Daley
9/27	T	6	<b>MIDTERM 1</b>		
9/29	Th		Milking Facilities/Procedures		Milking parlor set up/operation
10/4	T	7	Milk Production Physiology		
10/6	Th		Production Records/Culling		Culling lab/Herd summary sheet
10/11	T	8	Nutrition – forages		
10/13	Th				Dairy Tour - Ration Evaluation & Analysis
10/18	T	9	Nutrition – ration formulation		
10/20	Th				Credit for milking shift
10/25	T	10	Herd health		
10/27	Th		Metabolic Disease		Pfizer and Boehringer Ingelheim
11/1	T	11	<b>MIDTERM 2</b>		
11/3	Th		Lameness & Hoof-trimming		Guest speaker – Dr.Rodriquez - Zinpro
11/8	T	12	Dry Cows		
11/10	Th		Mastitis		Brucellosis vaccinations – Dr. Karle
11/15	T	13	Dairy Records Systems		
11/17	Th				Dairy Records Systems - DHI Plus, DC305
11/22	T		<b>Thanksgiving Break</b>		
11/24	Th		<b>Thanksgiving Break</b>		<b>Thanksgiving Break</b>
11/29	T	14	Housing & Physical Facilities		
12/1	Th		Animal welfare requirements: F.A.R.M.		Tour - Land O' Lakes
12/6	T	15	Reproduction /Reproductive Analysis		
12/8	Th				Project Reports
12/13	T	16	<b>FINAL EXAM Tues 10-11:50 AM</b>		