DAIRY CATTLE MANAGEMENT (AVS/AS 472) Course Syllabus, FALL 2022			
Date	**Day**	**Lecture Topic**	**Lecturer**
22-Aug	M	Course introduction - Dairy industry overview	Amin Ahmadzadeh
24-Aug	W	**Calves and heifer management**	"
26-Aug	F	Calves and heifer management	"
29-Aug	M	Deadline add/drop early 8-week classes	"
31-Aug	W		"
2-Sep	**F**	Lactation, Deadline drop or audit classes without "W"	"
5-Sep	M	No class - Holiday	"
7-Sep	W	The mammary gland milk synthesis	"
9-Sep	F		"
12-Sep	M	Exam 1 (Industry, heifers, lactation)	
14-Sep	W	Nutrition, Feeding Mgt	"
16-Sep	F		"
19-Sep	M		"
21-Sep	W		"
23-Sep	F		"
26-Sep	M		"
28-Sep	W		"
30-Sept	F	Dry cow and transition management	"
3-Sept	**M**		"
5-Oct	W		"
7-Oct	F	Metabolic disorders	"
10-Oct	M	Metabolic disorders	"
12-Oct	W	Exam 2 (Met disorders, nutrition, mammary gland)	
14-Oct	F	Udder health/Mastitis	"
17-Oct	M		"
19-Oct	W		"
21-Oct	F	Milk quality	"
24-Oct	M		"
26-Oct	W	Milk systems function and design	"
28-Oct	F	Reproductive management, record analyses	"
31-Oct	**M**		"
2-Nov	W		"
4-Nov	F		"
7-Nov	M		"
9-Nov	W	Exam 3 (Mastitis, milk systems, reproduction)	"
11-Nov	F	Predicted transmitting ability	
14-Nov	M	Genomic management and decision making	
16-Nov	W	Cow comfort and facilities design	Amin Ahmadzadeh
18-Nov	F	Cow comfort and facilities design	Amin Ahmadzadeh
22-Nov	M	No class - Holiday	
23-Nov	W	No class - Holiday	
25-Nov	F	No class - Holiday	
28-Nov	M	Milk market/pricing	John Swain
30-Nov	**W**	Milk market/pricing	John Swain
2-Dec	F	Dairy financial benchmarks	Amin Ahmadzadeh
5-Dec	M	Dairy financial benchmarks	Amin Ahmadzadeh
7-Dec	W	Dairy financial benchmarks	Amin Ahmadzadeh

COVID-19

Healthy Vandals Policies

It is a longstanding tradition that Vandals take care of Vandals, and we all do our best to look out for the Vandal Family. These simple precautions go a long way in reducing the impact of coronavirus on our campuses and in our communities. With everyone engaging in these small actions, we can continue to participate in our vibrant campus culture where we are able to learn, live, and grow. Please bookmark the University of Idaho Covid-19 webpage and visit it often for the most up-to-date information about the U of I's response to Covid-19.

1. **Daily Symptom Monitoring and In-Person Class Attendance.** Evaluate your own health status before attending in-person classes and **refrain from attending class in-person if you are ill, if you are experiencing any of the known symptoms of coronavirus, or if you have tested positive for COVID-19 or have been potentially exposed to someone with COVID-19**.

    - If you display symptoms and/or test positive, you should quarantine following the CDC's recommendations. Do not return to class until you meet the CDC's requirements.

    - If you have been exposed but are asymptomatic, you should stay home for 14 days from last exposure if you remain asymptomatic, adhering to the CDC's requirements.

2. **Face Coverings.** All faculty, staff, students and visitors across all U of I locations must use face coverings whenever in any U of I buildings. **You are required to wear a face covering over your nose and mouth in this classroom at all times**.
    a. If you have a medical condition that you believe affects your ability to comply with the face covering policy, please contact the Center for Disability Access and Resources (CDAR) to request a reasonable accommodation.
    b. If you have other reasons you believe make you exempt from wearing face coverings, please contact the Covid-19 Coordinator at covid19questions@uidaho.edu.
    c. Failure to wear a face covering means you will be required to leave the classroom. If a disruption to the learning experience occurs due to repeated offence and/or egregious behavior, it will be referred to the Dean of Students Office for potential code violation.

3. The class has enough capacity so that each student is able to sit 6 feet apart from another. Please maintain social distancing at all times. We encourage each student to disinfect his/her own working area at the beginning of each class.

DAIRY CATTLE MANAGEMENT (AVS 472) FALL 2022

"Management is art and science of combining resources and people to produce a quality product profitably."
- - Dr. William Etgen

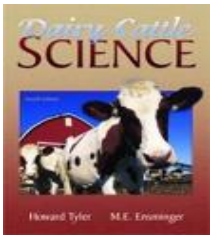
Course number: UI: AVS 472

Instructors: UI: Amin Ahmadzadeh (course coordinator; amin@uidaho.edu),

Teaching Assistant *Clayton Mabey (mabe0257@vandals.uidaho.edu)*

Texts: **Suggested**

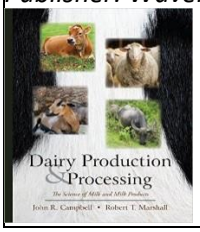
Howard Tyler, *Iowa State Univ.*
M. E. Ensminger, ISBN: 0-13-113412-



Publisher: Prentice Hall

J. R. Campbell and R. T. Marshall

Dairy Production and Processing, ISBN-13: 978-1478611202
Publisher: Waveland Press, Inc.



Other References: Most of our material will come from recent research and extension publications. Other good sources of information on Dairy Management topics can be found in Hoard's Dairyman, Progressive Dairyman, Dairy Herd Management.

http://www.webpages.uidaho.edu/avs472/

Objectives:

1. Teach and acquaint students with research-based knowledge needed to manage or work in commercial dairy farms and allied dairy industry:

2. To understand how the subjects of, milking, reproduction, nutrition management, records management, herd health, and genetics and selection integrate with the operation of a commercial dairy and
3. To understand how to apply these concepts to the efficient management of a dairy herd, the goal being high production of a quality product.

Learning Outcomes

- Students should be able to understand the potentials and prospects of the dairy industry in Pacific Northwest.
- Students should be able to understand the principles of management of dairy cattle.
- The students should be in position to identified strength and weakness of a dairy farms
- The student should be in position to assess production, nutrition, reproduction on a dairy farm
- The student should be able to demonstrate the ability to apply critical thinking skills in the context of distinguishing fact.

Philosophy:

This is a senior level course. Learning, understanding and combining knowledge will be emphasized over memorization. Facts that are memorized should be used to understand the key concepts. Exams will be geared to test your understanding of the material – not memorization skills. Your ability to use the facts you have learned will largely determine how successful you will be in this course.

Responsibility for learning in this course is jointly shared by the student and the instructor. **The instructor** is responsible for defining what is expected (Learning objectives), where the information can be found (lectures, references), helping the learning process by providing examples, illustrations, answering questions during or after class, and measuring the degree of learning by testing. **The student** is responsible for learning the subject matter specified in the learning objectives, asking question about those items they don't understand, and contributing their ideas to the class discussion.

Field trip and presentation :

A field trip designed to evaluate different management practices on dairies is **REQUIRED** for the course. The **Field Trip is scheduled for Oct 8,** and we will visit a dairy farm in Washington. We will depart early in the morning and return in the early evening. An attire of old clothes and boots are recommended. Please check your calendars and if you have a conflict and will be unable to attend the Field Trip on Oct 8, please report back to the instructors (Dr. Ahmadzadeh) by Aug. 27 to inform them that you will be unable to attend. Otherwise, it will be your responsibility to participate in the Field Trip on Oct. 8. A near equivalent educational experience will be made available for those unable to participate in the Field Trip.

At the University of Idaho: Small teams of students will be formed to evaluate a dairy enterprise and develop an outline describing the strengths and weaknesses of the assigned operation and provide sound solutions for the weak areas of the management. Each team must prepare a 20-minute presentation that has to be presented to the instructors. The time and the place of the presentations will be arranged.

Presentation: ***Each team will deliver a 15 to 20-minute presentation (15 min Presentation and five- minute question and answer period) on the assigned farm. The analysis should include a description and overview of the dairy, the production statistics and an evaluation of how the dairy is performing based on your expectations for performance given the dairy's constraints and your knowledge of dairy production. Lastly you are asked to make recommendations for changes you deem will improve the profitability of the dairy. A PowerPoint presentation is required. The instructors will provide the projector and other needed media equipment. The students will be expected to have their presentation saved to a USB memory stick, flash drive. Each team must be prepared to answer the questions and defend their case. The time of presentation will be determined at a later day.***

Other Class Policy:

If present in the class, the use of mobile phones (texting, etc.) is prohibited at all time in the classroom. Students can utilize their personal computer ONLY for taking notes and following up with the lecture notes. The use of computer for any other purpose is not allowed. Attendance will be taken and will be considered toward the final grades.

Grading:

Grading will be based on four one-hour exams (including the final), assignments report, and quizzes and a 50 point take home exam. The date of the quizzes will be announced advance. It is anticipated that the average student will need on average approximately 4-5 hours of out-of-class time per week to prepare for quizzes, complete homework assignments, study for exams, and complete the term paper. We will pay attention attendance and we strongly encourage students can participate in class discussions. Make-up exams and quizzes will be given with a valid excuse, which may include a note from an academic official, Student Health, primary care provider, or a personal physician.

Exam I	100 pts
Exam II	100 pts
Exam III	75 pts
Take Home Exam III B	25 pts
Exam IV	100 pts
Quizzes and Homework	150 pts
Field Trip Participation	50 pts
Total	*600 pts*

Final Exam: UI: Tuesday December 13, 7:30-9:30 AM (will be discussed later)

Dairy Course:

A companion Dairy Production course (Principles and Practices of Dairy Science; AVS 172) will be offered at UI (Thursdays from 1:30 to 4:30). It is not required for AVS 472 but ***is highly recommended for students with limited dairy farm background.*** The purpose of 172 is to give students hands-on experience in different dairy production practices. If you have specific interest in one or more topics but are not enrolled in the lab you may be able to attend individual labs; check with me prior to showing up. For those that attend this lab, old clothes and boots are recommended. For more information and detail contact Mr. Swain or Dr. Ahmadzadeh.

Management's job is to see the company not as it is ... but as it can become.

John W. Teets, Chairman, Greyhound

WHAT MANAGERS DO

Adopted from R. A .Milligan , Professor of Agricultural Economics, Cornell University

When the cows get out and the fence is down, there is not much question about what needs to be done: Find the cows, get help if needed, and fix the fence.

If you are the manager and the principal worker on this farm where the cows got out, some mixture of management and labor is required to get the job done. Yet no time was wasted in deciding which was which. Priority was established to get the job done in a hurry and resources were mobilized to do it.

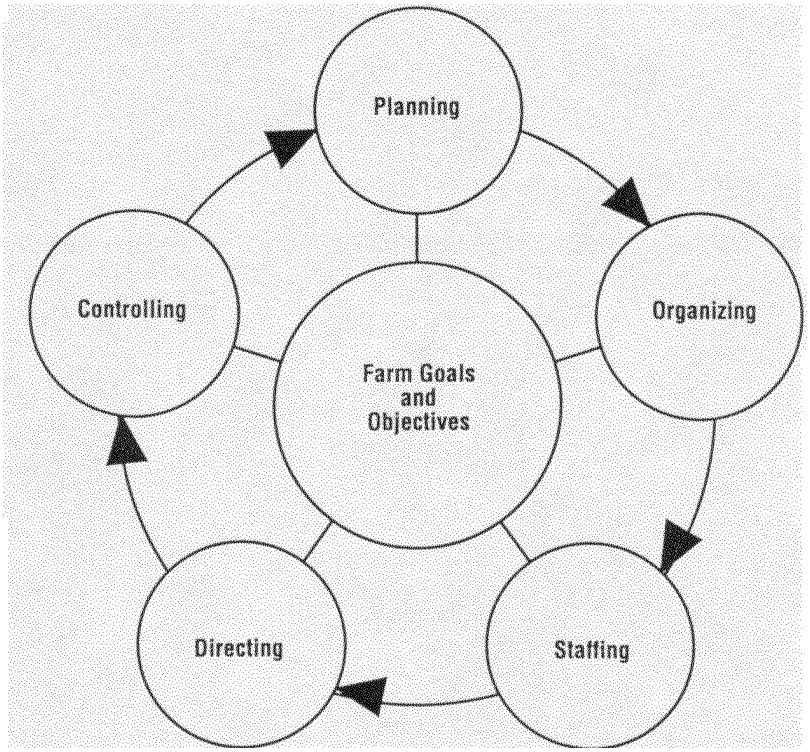
It is not hard to recognize that making decisions is part of management. Getting the cows back into the pasture and fixing the fence is mostly labor. Deciding how to fix the fence and what to use, mobilizing the labor, and determining why the cows got the fence down to begin with are all management. Recognizing that something may have been amiss, such as not checking the fence recently or not having enough feed for the cows in the pasture is part of management as well.

Here are some of the things farm managers do:

- Set goals and objectives
- Recognize and identify problems
- Respond and act when problems occur
- Seek, compile, and utilize relevant information
- Consider and analyze alternative courses of action
- Accept responsibility for these decisions
- Evaluate the results of these decisions
- Develop training programs for family members and employees
- Direct and evaluate family members and employees
- Make buy and sell decisions
- Control financial operations
- Organize the use of resources
- Establish the timing of operations
- Monitor operations and check up on everything

While there is overlap in this list, it could easily be expanded. The list does indicate, however that there are a lot of things that managers do. That is why good full-time managers are crucial to most sizable businesses and why time must be set aside for management in any business – even if the principal laborer is also the manager.

All functions of farm management work toward achieving farm goal and objectives



Adapted from Farm Management,