

PRINCIPLES AND PRACTICES OF DAIRY SCIENCE (AVS 172)
Course Syllabus
Fall 2021

Date	Lecture Topic & Tentative Laboratory Practice		Place
Aug 26	Raising calves & video on dairy farm	Course introduction, objectives, syllabus Calf and heifer care, growth measurements	Ag Sci 104 & Dairy Center
Sept 2	Anatomy & physiology of digestion, nutrient requirements Quiz 1	Feeds and feeding, feed analysis, and evaluation, Practicing blood collection	Dairy Center
9	Feeds and feeding Quiz 2	Feeding Trial	Ag Sci 104& Dairy Center
16	Lactation physiology Quiz 3	Gross anatomy of mammary gland	AG Sci 104
23	Endocrinology of mammary gland, milk synthesis Quiz 4	Animal restraint & handling, body temp, drug administration & injection sites, practicing blood collection and drug administration (oral, i.m., s.q.)	Ag Sci 104 & Dairy Center
30	Milking mgt and procedure milking systems Quiz 5	Evaluation of milking system, milking practicum, milk quality and components	Dairy Center
Oct 7	Exam 1	Physical examination, blood collection, and i.v. administration (practice)	Dairy Center
14	Mammary gland metabolism and mastitis Quiz 6	Mastitis treatment, antibiotic residue test, and CMT	Dairy Center
21	Metabolic diseases	AI, pregnancy check, and ultrasonography	Ag Sci 104
28	Physiology of reproduction	Semen handling, AI and ultrasonography	Ag Sci 104 & Dairy Center
Nov 4	Dairy herd records (DHI), Dairy cattle evaluation, Quiz 7	Body condition score, feet and legs evaluation, Presentation topic due	Ag Sci 104 & Dairy Center
11	General endocrinology Quiz 8	Quiz Bowl Question due	Ag Sci 104& Dairy Center
18	Quiz Bowl and Exam 2Qs	Exam 2	Ag Sci 104
25	No Classes	FALL BREAK	
Dec 2	Presentations	Presentations	Ag Sci 104
9	Presentations	Presentations	Ag Sci 104

COVID-19 Healthy Vandals Policies

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.

- Masks are required, effective immediately, in all university buildings, regardless of vaccination status. Faculty may wear a face shield to lead classes and must maintain 6 feet of distance while wearing the shield. These requirements will be reviewed on a periodic basis and are subject to change.
- All classes are offered in the modality listed in the catalog.
- All Vandals are highly encouraged to be [vaccinated](#).
- COVID-19 tests are not required to attend class in person.

Additionally, faculty and students must follow the Healthy Vandal Pledge:

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.
 - Stay home if you experience any symptoms related to COVID 19 and that are not attributed to a non-infectious health condition regardless of how mild.
 - Contact your medical provider or local Idaho Public Health District for assessment of symptoms and possible COVID19 testing. Positive COVID 19 tests should be submitted via a [VandalCare Report](#) in order to make arrangements that involve classroom absences due to illness, and/or quarantine or isolation requirements directed by a medical provider.
2. **Face Masks.** All faculty, staff, students and visitors across all U of I locations must use face masks whenever indoors at any U of I buildings. You are required to wear a face mask over your nose and mouth indoors at all times.
 - a. If you have a medical condition that 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. 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.

NOTE: This does not need to be included in the syllabus, but this would be the procedure for faculty to respond to a student who refuses to wear a mask:

Protocols for dealing with students who do not adhere to face mask policy:

All UI students must wear face masks while inside of UI buildings, including in classrooms. Students are not permitted to remove face masks during classes even if they are able to maintain a six-foot distance from other students.

Step 1 – In the event a student refuses to wear a face mask while in class, faculty member should address the behavior and request that the student put on a face mask. For example: “There is a requirement that all community members wear a face mask while in classrooms to keep us all safe and healthy. Please wear a face mask to continue to be in this space.”

Step 2 – If a student still refuses to wear a face mask, the faculty member should ask them to leave the classroom.

Step 3 – If the student refuses to leave the class you should contact Campus Security (885-SAFE) to have the student removed from the classroom

Here is the recent communication from the president and provost: <https://www.uidaho.edu/-/media/UIIdaho-Responsive/Files/health-clinic/covid-19/memos/memo-210811-green-lawrence.pdf>

**Practices and Principles of Dairy Science, Fall 2021
Course Syllabus**

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

<i>Course number:</i>	UI: AVS 172
<i>Instructor:</i>	UI: Dr. Amin Ahmadzadeh; amin@uidaho.edu)
<i>Teaching Assistant:</i>	Kylee Elmore (elmo5378@vandals.uidaho.edu) Kelci Scharff (scha8787@vandals.uidaho.edu)
<i>Texts:</i>	None required Reference books on reserve: <i>Dairy Cattle, Bath et al., 3rd Ed, 1981</i> <i>Dairy Cattle Management, Tyler and Ensminger, 4th Ed, 2006</i> *These books will be on reserve in the Ag Science Bldg #210
<i>Other References:</i>	Most of our material will come from recent research and extension publications. Other good sources of information on Dairy Science in various can be found in Hoard's Dairyman Magazine, Progressive Dairyman Magazine, and from the Internet.

Teaching Philosophy: 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 the items they don't understand, and contributing their ideas to the class discussion.

Prerequisite: None

Class Outline: This is an introductory course with the purpose of providing an overview of the dairy industry and the science of producing milk. Discussion topics and course outline are listed on the next page. The course is divided into fifteen sections. Measurable learning objectives specify what the instructor expects the students to learn in this course.

This course is designed to offer both lectures and laboratory sections so that students obtain both theoretical knowledge and hands-on experience. To achieve this objective, the class takes place one-time a week on Thursday afternoons and it is divided to one 1-hour lecture and one 2-hour laboratory practice.

Extracurricular Activity: To enhance the undergraduate training in dairy science and extend the learning experience beyond the traditional classroom setting, students will in assist with Ag Days FFA/4H Dairy Cattle Judging event. It is our intension to create a functional relationship and linkage between student, college of Ag, and allied industry in an educational and fun environment. Students will participate in preparing cows for the judging event. That includes cleaning the cows, leading cows in the ring, and assist with tallying scores, etc. This event will take place on **Saturday September 25 from 6:00 am to 11 am at UI Dairy Center.** It is our intension to create a functional relationship and

linkage between student, university faculty, and allied industry representative to enhance our knowledge.

Information sources: There is no required textbook for this course. Information in the form of reference textbooks (on reserve), website references to short articles, extension publications, and government bulletins will provide material to be used as reference material. This information will be either handed out in class or it will be available from the web site.

Objectives:

1. Teach and acquaint students with research-based knowledge and skills needed to work with dairy cattle:
 - a. To understand how the subjects of milking, reproduction, nutrition, records, and herd health integrate with the operation of a dairy
 - b. To understand how to apply these concepts to the efficient management and care of dairy cattle to produce high production of quality milk.

Exams and grading: Short quizzes will be given as indicated in the syllabus, unless students are informed otherwise by the instructor. There will be two 60-minute exams. They will be held on the dates indicated on the class outline. **The final exam will be discussed in more detail later in the semester. The final will be on December 16th.**

Instructor should be notified as soon as possible if students will not be present for an exam. Unexcused absences will result in a zero grade being awarded and no makeup exams will be given.

Grading:

Grading will be based on one fifty-minute exam, presentation, quizzes, and a final exam.

Quizzes (n = 8)	200 pts
Exam 1	100 pts
Exam 2	100 pts
Presentation	100 pts
<u>Homework and other Assignment</u>	50 pts
<i>Total</i>	<i>550 pts</i>

Presentation: Each student team deliver a 15-minute presentation (10-15 min presentation and 5 min question and answer period) on a given topic. The instructor provides several topics which students can choose from.

Students must discuss the topic of their choice and receive the approval by the instructor no later than November 5th.

Laboratory:

The purpose of 172 is to give students hands-on experience in different dairy production practices. Participation in lab is mandatory and **no makeup session will be offered.** For laboratory practices which take place on the farm, old clothes and boots are required.

Quiz Bowl

A quiz bowl will be conducted during the last laboratory period. Students are responsible for formulating the questions and for conducting the quiz bowl. **Questions for the quiz bowl will be due November 30th.**