

ANS 3251 - Biology and Management of Dairy Cattle

section 4634 (class 10519) and section BMDO (class 27614)

Tuesday and Thursday, 4th period (10:40 – 11:30 AM), classroom 155 (ANS Bldg.) or online, 2 credits

Instructor

Dr. Albert De Vries, Room 104F in the Dairy Science building. Office hours are Tuesday and Thursday 11:30 AM- 12:30 PM (the hour after class), or when mutually convenient. The instructor decides in all cases not covered in this syllabus. Several guest instructors will present some of the material. Email only through e-Learning.



Teaching Assistant

Laura Jensen. Office hours when mutually convenient. Email only through E-learning.

Course Description

This survey course offers a deeper understanding of the biology of dairy cattle and the interrelationship between biology and management. Topics: dairy industry, nutrition, reproduction, genetics, behavior, diseases, young stock, facilities, lactation, milking procedures, milk quality, management, economics, and environmental impact of dairy production. It is appropriate for upper-level undergraduate students seeking to improve their knowledge of dairy cattle, biology, and management. The focus is on integrating the material that is taught into higher level learning and thinking.

Prerequisite

None, but the course builds upon some basic understanding of physiology, nutrition, reproduction, and genetics that was taught in high school and ANS 3006 Introduction to Animal Science.

Course Goals

Students will develop a better understanding of the biology of dairy cattle and the interaction between biology and management as it relates to dairy production in Florida and the USA.

COVID Response Statements

We will follow the UF instructions related to Covid-19. This includes wearing a mask at all times during class time. In some cases, it will not be possible to maintain a 6-foot physical distance.

<https://policy.ufl.edu/policy/masking-and-physical-distancing/>

We will have face-to-face instructional sessions to accomplish the student learning objectives of this course. In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.

This course has been assigned a physical classroom with enough capacity to maintain physical distancing (6 feet between individuals) requirements. Please utilize designated seats and maintain appropriate spacing between students. Please do not move desks or stations.

Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.

Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.

If you are experiencing COVID-19 symptoms (Guidance from the CDC on symptoms of coronavirus: <https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>), please use the UF Health screening system and follow the instructions on whether you are able to attend class. (UF Health guidance on what to do if you have been exposed to or are experiencing Covid-19 symptoms: <https://coronavirus.uflhealth.org/screen-test-protect-2/frequently-asked-questions/covid-19-exposure-and-symptoms-who-do-i-call-if/>).

Course materials will be provided to you as much as possible with an excused absence, and you will be given a reasonable amount of time to make up work. (Find more information in the university attendance policies: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>)

Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Class Attendance

Requirements for class attendance and make-up quizzes and assignments are consistent with UF policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. Make-ups need to be requested within one week of the original due date. Class attendance is highly encouraged but not required. All material assigned or discussed in class is subject for examination, but not all discussed material will have posted materials on the course website. We will use a combination of PowerPoint slides, videos, assigned readings, and the black board as aids. We will also use a combination of active learning methods throughout the course. Class time will also be used to give feedback on student performance in quizzes and assignments. Use of cell phones is not allowed during in-class time, unless we give you permission. These policies are in place to make learning as successful and pleasant as possible for everybody.

Course Website and Communication

The course website is through <http://elearning.ufl.edu>. We will use the website to post materials, on-line quizzes, assignments and grades. We'll bring printed copies of the slides to class whenever we first use the slide set, but they may not be available later. Slides will also be posted on the course website. Slides may be complete or incomplete where you should fill in the blanks. Make sure you set your <http://elearning.ufl.edu> settings to receive emails and announcements related to this course as soon as possible. All electronic communication between students and instructors needs to occur through <http://elearning.ufl.edu>.

On-line students: Visit the course website at <http://elearning.ufl.edu> for the course Zoom link. The instructor will admit you to the class.

Text and Material Covered

Readings will be assigned. All required readings and materials presented and discussed in class are subject for evaluation in quizzes and tests.

Grading (103% maximum)

- 9% Three assignment groups:
 - 1% Student introductions. One assignment to introduce yourself to all class members.
 - 2% Class questions: One assignment at the end of class, most classes.
 - 6% Eleven readings (or other) assignments.
 - Every assignment within an assignment group has equal weight.
- 50% Quizzes: Six online quizzes will be given. Each quiz is weighted equally. Material for the quiz is all new material since the previous quiz. The lowest quiz score will be dropped for the calculation of your final grade. Every student can have a quiz buddy to increase the score on one question per quiz. Further details about quizzes will be announced on <http://elearning.ufl.edu>.
- 44% Final exam. Comprehensive. Correct English grammar in your answers is part of the grading.
- Scores can be appealed within 1 week of returning the score. We will regrade the whole quiz/assignment/exam. We'll use the grade book in e-Learning for final grades if possible.

- For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Grading scale:

Grade	Score	Grade	Score
A	≥93%	C	≥73% <77%
A-	≥90% <93%	C-	≥70% <73%
B+	≥87% <90%	D+	≥67% <70%
B	≥83% <87%	D	≥63% <67%
B-	≥80% <83%	D-	≥60% <63%
C+	≥77% <80%	E	<60%

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.aa.ufl.edu/public-results/>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code>.

Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. Information: 0001 Reid Hall, 352-392-8565, www.dso.ufl.edu/drc/

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575, www.counseling.ufl.edu/cwc/
 - Counseling Services, Groups and Workshops, Outreach and Consultation, Self-Help Library, Wellness Coaching.
- U Matter We Care, www.umatter.ufl.edu
- Career Connections Center, First Floor JWRU, 392-1601, <https://career.ufl.edu/> .
- Student Success Initiative, <http://studentsuccess.ufl.edu> .

Student Complaints:

- Residential Course: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>
- Online Course: <http://www.distance.ufl.edu/student-complaint-process>

ANS 3251 – Biology and Management of Dairy Cattle - T, R: 4th period (10:40 – 11:30 AM) – Spring 2021

The schedule may change during the semester. Check E-LEARNING@UF for the latest schedule

Lect.	Grade	Date	Day	Topic	Instructor
1		1/12	T	Introduction to course, history of dairy production	De Vries
2		1/14	R	History of dairy production, dairy production cycle	De Vries
3		1/19	T	Dairy production cycle	De Vries
4	R1	1/21	R	Lactation physiology	De Vries
5	Q1	1/26	T	Milk production	De Vries
6	R2	1/28	R	Milk production	De Vries
7		2/2	T	Mastitis, milk quality	De Vries
8	R3	2/4	R	Milking equipment	De Vries
9	Q2	2/9	T	Nutrition and management: calves and heifers	De Vries
10	R4	2/11	R	Nutrition: calves, heifers, cows	De Vries
11		2/16	T	Nutrition: cows	De Vries
12	R5	2/18	R	Metabolic diseases	De Vries
13	Q3	2/23	T	Environmental physiology, heat stress	Hansen
14		2/25	R	<i>Recharge Day, no class</i>	
15		3/2	T	Environmental physiology, heat stress	Hansen
16	R6	3/4	R	Facilities	De Vries
17		3/9	T	Facilities	De Vries
18	R7	3/11	R	Welfare	Jensen
19	Q4	3/16	T	Genetics, heritability, traits, PTA	Jensen
20	R8	3/18	R	Genetics, heritability, traits, PTA	De Vries
21		3/23	T	Selection index, genomics, economics	De Vries
22	R9	3/25	R	Estrus cycle, hormones, anestrus	De Vries
23	Q5	3/30	T	Estrus detection, bulls, AI	De Vries
24	R10	4/1	R	Estrus synchronization programs	De Vries
25		4/6	T	Sexed semen, embryo transfer, economics	De Vries
26	R11	4/8	R	Culling, maturity, replacements	De Vries
27	Q6	4/13	T	Grazing, organic production	De Vries
28		4/15	R	Environmental sustainability	De Vries
29		4/20	T	Environmental sustainability, future of dairy	De Vries
		TBA		Review	De Vries
	Exam	4/30	F	Final Exam: 4/30/2021 @ 10:00-12:00 PM. Online	

Q: Online quiz: Material including Tuesday. Take Friday or Saturday. Time restricted on-line access.

R: Reading or other assignment posted: Due Thursday 11:59 PM the week after posting.