

ANS 3251 - Biology and Management of Dairy Cattle

section 4634 (class 10484)

Tuesday and Thursday, 4th period (10:40 – 11:30 AM), classroom 151 (ANS Bldg.), 2 credits

Instructor

Dr. Albert De Vries, Room 100C in the Animal 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. Guest instructors may present some of the material. Email only through e-Learning.



Teaching Assistant

Kelly Forbes. 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 sector, nutrition, reproduction, genetics, behavior, welfare, 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 in a systems context as it relates to dairy production in Florida and the USA.

COVID Situation

We will strictly follow the UF guidelines, expectations, and requirements regarding the covid pandemic to make the course as safe as possible for everyone. See <https://coronavirus.ufl.edu/>

There is no UF requirement that an online option is provided. However, due to the possibility of students needing to quarantine, lectures will be recorded or made available, but only provided to

students on an individual basis if they seek prior permission or provide adequate medical documentation. Students that have any questions or concerns are encouraged to contact the instructor.

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/>)

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/white 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, online quizzes, exams, 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>.

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 (102% maximum)

- 9% Three assignment groups:
 - 1% Student introductions. One assignment to introduce yourself to all class members.
 - 1% Class attendance and participation.
 - 7% Seven readings or other assignments.
 - Every assignment within an assignment group has equal weight.
- 50% Quizzes: Six 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>.

- 43% 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/>.

In-Class Recording

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. A "class lecture" is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session. Publication without permission of the instructor is prohibited.

To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

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 2022
 Classroom 151 in Animal Science

The schedule may change during the semester. Check E-LEARNING@UFL.EDU for the latest changes

Lect.	Grade	Date	Day	Topic	Instructor
1		1/6	R	Introduction to course, history of dairy production	De Vries
2		1/11	T	History of dairy production, dairy production cycle	De Vries
3	R1	1/13	R	Dairy production cycle	De Vries
4		1/18	T	Lactation physiology	Forbes
5	Q1	1/20	R	Milk production	De Vries
6		1/25	T	Milk production	De Vries
7	R2	1/27	R	Milking equipment	De Vries
8		2/1	T	Mastitis, milk quality	Forbes
9	Q2	2/3	R	Nutrition and management: calves and heifers	De Vries
10		2/8	T	Nutrition: calves, heifers, cows	De Vries
11	R3	2/10	R	Nutrition: cows	De Vries
12		2/15	T	Metabolic diseases	De Vries
13	Q3	2/17	R	Environmental physiology, heat stress	Hansen
14		2/22	T	Environmental physiology, heat stress	Hansen
15	R4	2/24	R	Facilities	De Vries
16		3/1	T	Facilities	De Vries
17	R5	3/3	R	Welfare	De Vries
				<i>Spring Break, March 5-13</i>	
18		3/15	T	Genetics, heritability, traits, PTA	De Vries
19	Q4	3/17	R	Genetics, heritability, traits, PTA	De Vries
20		3/22	T	Selection index, genomics, economics	De Vries
21	R6	3/24	R	Estrus cycle, hormones, anestrus	De Vries
22		3/29	T	Estrus detection, bulls, AI	De Vries
23	Q5	3/31	R	Estrus synchronization programs	De Vries
24		4/5	T	Sexed semen, embryo transfer, economics	De Vries
25	R7	4/7	R	Culling, maturity, replacements	De Vries
26		4/12	T	Grazing, organic production	Forbes
27	Q6	4/14	R	Environmental sustainability	De Vries
28		4/19	T	Environmental sustainability, future of dairy	De Vries
		TBA		Review	De Vries
	Exam	4/29	F	Final Exam: 4/29/2022 @ 7:30 AM - 9:30 AM	

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

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