

DAIRY PRODUCTION MEDICINE



FLORIDA INTERNATIONAL
DAIRY ACADEMY

DEPARTMENT OF ANIMAL SCIENCES

Instructors:

Dr. Rafael S. Bisinotto

Assistant Professor

Department of Large Animal Clinical Sciences

University of Florida

rsbisinotto@ufl.edu

Course Description

Healthy dairy calves and cows are the bedrock for efficient production of milk that is nutritious and safe for human consumption. The FIDA Dairy Production Medicine course is designed to provide students with the knowledge and skills necessary to identify major production diseases, perform herd investigations focused on health and performance, and develop protocols for prevention and monitoring of diseases relevant to dairy herds. Students will be exposed to up to date scientific knowledge and practical examples from commercial operations via online lectures.

Course Objectives

Provide students with the knowledge, critical thinking skills, and analytical skills that are essential for monitoring health programs in dairy herds. After completion of the course, students should be able to:

- Understand concepts of dairy records and epidemiology.
- Identify infectious diseases and metabolic disorders that impact health and productivity.
- Evaluate transition programs.
- Develop strategies to prevent disease based on biosecurity, vaccination, and best management practices.
- Understand concepts of residue avoidance.
- Recognize the importance and opportunity for training of dairy farm workers.

Course Format and Expectations

Lectures and Readings: The course will be delivered via the Canvas course system. The major course topics will be separated into 8 separate modules according to the schedule below. Within each module there will be a series of three recorded lectures that are approximately 50 minutes each. There will be a short assessment that you will be required to complete after completion of each lecture. There also will be recommended readings and exercises to complete each module. You will be required to complete the module before moving to the next.

Course Schedule

Module	Topic	Lectures
1	Epidemiology and Dairy Records	Basic and applied concepts of epidemiology, Dairy records and evaluation of transition cow performance
2	Replacement Heifers and Animal Welfare	Overview of dairy heifer rearing, Animal comfort, housing, and heat stress
3	Calving and Uterine Health	Management of maternity and calving, Uterine health in dairy cattle
4	Udder Health and Milk Quality	Udder health and milk quality
5	Metabolic Disorders	Metabolic disorders in lactating dairy cows
6	Hoof Health	Hoof health
7	Infectious Diseases and Vaccination Programs	Infectious diseases and vaccination programs
8	Monitoring Health and Performance in Dairy Production Systems	Impact of disease on production, reproduction, and culling, Use of automated monitoring technologies
9	Training of Dairy Farm Workers	Training of dairy farm workers
10	Residue Avoidance	Concepts of residue avoidance

Honesty and Conduct Policy

Students in the course are expected to adhere to the University of Florida honesty policy. UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students 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.” The Honor Code (<https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>) specifies a number of

behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Students in this course also are expected to treat each other with fairness and respect. Harassment or rude behavior towards the instructors and other students will not be tolerated.

The instructors have the right to dismiss a student from the course for violation of the Honesty and Conduct Policy.

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. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Certificate of Completion

A Certificate of Completion will be awarded upon successful completion of all modules and viewing of all required videos. This course is designed for self-paced learning, allowing students to progress through the material at their own speed. Students will have indefinite access to the course, enabling them to revisit the content at any time for continued learning and reference. We encourage students to engage with the material thoroughly to maximize their understanding of information provided.

Dairy AdvanCE Continuing Education

Students earning continuing education credit through Dairy AdvanCE will be awarded credit only after course has been 100% completed. Please allow time for processing.

Contact fida@ifas.ufl.edu for any questions or concerns.

This course will award 16 CEUs.