



Milk Quality

Class Periods: online, three lectures per part.

This is a 4-part course which consist of three 50 min lectures. The lectures can be viewed at the student's convenience.

Instructor: Izabella Toledo

izatul@ufl.edu

Course Website

The course is offered using CANVAS on the IFAS Extension Online Learning platform.

Course Description

The Milk Quality course is designed to enable students to learn the basics of milking procedures and routines, mastitis identification, prevention control and treatment, dry cow treatments, and milk quality management. The information provided will allow students to increase their knowledge and skills on how to improve the milk quality of a dairy herd. By the end of the course, students should be able to understand the steps necessary to have a good milk quality management program in a dairy farm.

The course is ideal for individuals who have been working with dairy cows and are looking to increase their knowledge of milk quality management, or those that have had some training but want a refresher and some updated information on milk quality management.

Course Objectives

The main objective of the Milk Quality course is to provide students with basic knowledge on milk quality management practices with the ultimate goal of giving students the opportunity to understand, develop and apply a successful milk quality management program.

Course Schedule

Part 1:

- Dairy Cow Facilities
- Low- Stress Handling/ Good Dairy Stockmanship
- Milk Flow/Milking Equipment

Part 2: Assessment 1

- Milking Procedures/Routine/ Udder Hygiene
- Mastitis
 - *What is it
 - *Types
 - *Causes
 - *Pathogens
- Mastitis
 - *Somatic Cell Counts
 - *Diagnosis

Part 3: Assessment 2

- Mastitis
 - *Treatment/Prevention/Control
- Dry Cow Treatment
- Dry Off Period and Milk Quality

Part 4: Assessment 3

- Milk Quality Management
 - *What is it
 - *Key Parameters
- Milk Quality Management
 - *Bulk Tank Somatic Cell Counts
 - *Bacterial Contamination
 - *Milk off-flavors/odors
- How to Improve Milk Quality

University 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.

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. 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 8 CEUs.