



MILK QUALITY

Instructor

Dr. Izabella Toledo

Regionalized Dairy Extension Agent
UF/IFAS Extension Northeast District
izatol@ufl.edu

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 Layout

This 4-week course will be delivered via the Canvas course system. The major course topics will be separated into 3 separate modules according to the schedule below. Within each module there will be a series of recorded lectures that are approximately 50 minutes each. There will be questions embedded in each lecture to gauge understanding. Also, there will be recommended readings to accompany each topic in a module. You will be required to complete the previous module before moving to the next. After the final lecture, there will be optional practical assignment that will be reviewed by the course instructor.

A valuable component of the course is the weekly one-hour discussions that will be held via Zoom. The major objective of the discussions is to help students develop a practical working knowledge of the lecture and reading materials. Therefore, students should be prepared for the discussion by watching lectures and reading ahead of time and come up with questions relevant to application of the course content. The content to be discussed during each zoom discussion is listed under the page for the zoom meeting along with the zoom link. It is expected that some students may not be able to attend the discussions because of time zone

or work schedule conflicts. Students are encouraged to submit questions via the Zoom Discussion boards on Canvas in advance if they cannot attend the discussion.

Course Schedule

Week	Modules	Lectures
1	Module 1	<ul style="list-style-type: none"> • Dairy Facilities • Low Stress Handling/Good Dairy Stockmanship • Milking Equipment • Milking Procedures
2	Module 2	<ul style="list-style-type: none"> • Mastitis (Definition, Types, Causes) • Mastitis (Somatic Cell Counts, Diagnosis) • Mastitis (Treatment, Prevention, Control)
3	Module 2	<ul style="list-style-type: none"> • Dry Cow Treatment • Dry-Off Period
4	Module 3	<ul style="list-style-type: none"> • Milk Quality (Composition, Products, and Processing) • Milk Quality Parameters • How to Produce High Quality Milk

Grading Policy

Pass/Fail – Completion of all lectures and associated questions is required for a passing grade.

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.