

AN332

Dairy Herd Management II

3 Credits

Instructor: TBA

Original Developer: Blair Dow; Geoff Brown

Current Developer: Keshia Paddick; TBA

Reviewer: Amy Stanley

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Approval: 27/08/2019

Alternate Delivery: No

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AN332 Version: 4



Dairy Herd Management II

Calendar Description

Dairy facilities can take a variety of forms. This course investigates different types of facilities, the strengths and weaknesses of each and the regulations involved in developing or expanding facilities. Managing young stock and dry cows and culling strategies will also be discussed.

Rationale

This is a core course for the Dairy Science major of the Animal Science Technology program. Dairy facility design, management of manure, young stock and dry cows are the focus of this course. These topics are key components to the operation of a successful dairy operation.

Prerequisites

None

Co-Requisites

None

Course Learning Outcomes

Upon successful completion of this course, students will be able to:

1. plan and design an optimal dairy facility by considering regulations, cow comfort, available technology, storage and management needs, and biosecurity.
2. evaluate a dairy facility to identify strategies to improve and optimize production.
3. explain how manure is collected, separated and used on a dairy operation and outline various costs and regulations associated with each.
4. develop a calf rearing program that will optimize growth and reduce disease risk.
5. develop a heifer rearing program that will ensure replacements enter the herd within 24 months of birth.
6. establish a dry cow management program that optimizes health and future production of both the cow and calf.
7. develop a culling strategy and protocol to ensure continual herd improvement and animal well-being.

Resource Materials

Required Text(s):

None

Reference Text(s):

None

Conduct of Course

This course involves approximately 3 hours of lecture per week and 2 hours of lab every other week. Proper attire is required by students to be in labs. Students are also expected to participate in a dairy challenge exercise and presentation. This requires students to travel to another dairy operation to evaluate and determine areas of improvement of that operation.

Evaluation Procedures

| | |
|--------------------------|-----|
| Assignments and Quizzes | 30% |
| Facility Design Project | 15% |
| Dairy Challenge Exercise | 10% |
| Lab Competencies | 25% |
| Exam | 20% |

Grade Equivalents and Course Pass Requirements

A minimum grade of D (50%) (1.00) is required to pass this course.

| | | | | | | | | | | | | |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Letter | F | D | D+ | C- | C | C+ | B- | B | B+ | A- | A | A+ |
| Percent Range | 0-49 | 50-52 | 53-56 | 57-59 | 60-64 | 65-69 | 70-74 | 75-79 | 80-84 | 85-89 | 90-94 | 95-100 |
| Points | 0.00 | 1.00 | 1.30 | 1.70 | 2.00 | 2.30 | 2.70 | 3.00 | 3.30 | 3.70 | 4.00 | 4.00 |

Students must maintain a cumulative grade of C (GPA - Grade Point Average of 2.00) in order to qualify to graduate.

Attendance

Classroom and laboratory attendance is considered vital to the learning process and as significant to the students' evaluation as examinations and reports.

- a. Students having a combination of excused and/or unexcused absence of 20 percent or higher for the scheduled course hours will be required to withdraw and will automatically receive a "RW" (required withdrawal) for the course, regardless of any other evaluation results. (RW is a failing grade.)
- b. An excused absence is one that is verified with your Instructor. Verification should be prior to the absence or the next class day following the absence. Verification of the absence may take the form of a note from your doctor/College nurse regarding illness, or a note from another Instructor regarding a field trip or other activity, or authorization by your Instructor. An unexcused absence is anything NOT verified by the instructor prior to the absence or the next class day following the absence.

NOTE: Any exceptions to the above attendance policy (e.g. timetable conflicts, work-related issues) must be approved in writing by the Department Chair prior to the beginning of the course.

It is the students' responsibility to know their own absentee record.

Normal hours are 8:30 a.m. to 6:30 p.m., with potential for evening courses, exams or extended field trips. Students are expected to be available for classes during these times.

Course Units/Topics

1. Dairy Housing
2. Manure Management
3. Young Stock Management
4. Dry Cow Management
5. Cull Cow Strategies



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