

**AN300**  
**Livestock Production**  
**3 Credits**

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## **AN300 Version: 3**



# **Livestock Production**

## **Calendar Description**

This course provides an introductory overview of production practices for the beef, dairy, swine, sheep, equine, and poultry industries in Canada. Economic benchmarks are essential to understanding the basic principles of this course. The course includes a brief introduction to supply managed marketing in the dairy, poultry, and egg industries. Regulatory issues and environmental farm planning related to livestock enterprises are investigated.

## **Rationale**

This course is a required course for students in the Livestock Production and the Marketing Communications concentrations of the Agribusiness program. Modern livestock enterprises may be complex and capital intensive. A general awareness of production practices, facility and equipment requirements, industry benchmarks, welfare and safety concerns, regulatory issues, environmental farm planning, and supply managed marketing characteristics is of benefit to students pursuing a career in agribusiness.

## **Prerequisites**

None

## **Co-Requisites**

None

## **Course Learning Outcomes**

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

1. discuss the economic impact and common production practices for various types of livestock operations.
2. identify critical economic benchmarks used in livestock industries in Canada.
3. create analysis of Student Managed Farm.
4. describe the potential environmental impacts of of livestock operations, and the effects of relevant regulations, Codes of Practice, and environmental farm planning procedures.

- list government assistance programs related to the mitigation of potential environmental impacts of farming operations.

## Resource Materials

### *Required Text:*

None

### *Reference:*

Alberta Agriculture Food and Rural Development. (2008). *Beef cow-calf Manual*.

## Conduct of Course

The course consists of 42 hours of lecture periods. Students have the opportunity to observe the Student Managed Farm livestock units on the College farm, and to participate in hands-on practical work in some units. Where possible, local field trips may be arranged to reinforce topics discussed in class.

## Evaluation Procedures

The final course evaluation consists of a combination of academic and practical procedures weighted as described below:

Industry Interview	30%
Midterm Exam	20%
Final Exam	20%
Analysis of Livestock Operation	30%

## 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

Unit One: Supply Managed Marketing

1. Definition and elements of supply managed marketing
2. Impacts for producers and consumers

Unit Two: Regulatory and Environmental Issues for Livestock Operations

1. Environmental regulations
2. Nutrient management
3. Codes of practice and Beneficial Management Practices
4. Government incentive programs

Unit Three: Beef Industry

1. Economic impact
2. Production practices
3. Facilities and equipment

4. Product quality and safety
5. Economic benchmarks

#### Unit Four: Dairy & Poultry Industry

1. Economic impact
2. Production practices
3. Facilities and equipment
4. Product quality and safety
5. Economic benchmarks

#### Unit Five: Swine Industry

1. Economic impact
2. Production practices
3. Facilities and equipment
4. Product quality and safety
5. Economic benchmarks

#### Unit Six: Sheep Industries

1. Husbandry practices
2. Market characteristics
3. Industry economics

#### Unit Seven: Equine Industry

1. Husbandry practices
2. Facilities
3. Market characteristics
4. Industry economics



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