ORIGINAL COURSE IMPLEMENTATION DATE: September 2008
REVISED COURSE IMPLEMENTATION DATE: September 2023
COURSE TO BE REVIEWED (six years after UEC approval)**:** February 2029
Course outline form version: 09/08/2021

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: AGRI 239	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Management and Production of Beef, Sheep, and Goats **Course Short Title:** Mgmt & Prod: Beef/Sheep/Goats	
Faculty: Faculty of Science	**Department (or program if no department):** Agriculture Technology

Calendar Description:

Focuses on nutrition, genetics, welfare, common diseases, and housing of beef, sheep, and goats. Business opportunities and marketing will be explored for these unregulated commodities. Theory will be combined with hands-on animal care in the on-campus CEP Demonstration Barn, both during and outside scheduled class time.

Note: Field trips outside of class time will be required. Please check with the department for details.

Prerequisites (or NONE):	None.
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	25
Experiential (cultural/elder learning or participation)	20
Total hours	**45**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**
(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**
(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **Face-to-face only**

Expected frequency: **Every other year**

Maximum enrolment (for information only)**: 25**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Examination(s), Articulated agreements

Transfer Credit *(See **bctransferguide.ca**.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **Yes**
(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	September 2022
Faculty Council approval	**Date of meeting:**	October 7, 2022
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	February 24, 2023

Learning Outcomes *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

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

1. Describe the challenges and opportunities in the Canadian beef/sheep/goat industry in comparison to regulated livestock sectors (i.e. poultry and dairy).
2. Identify breeds of cattle/sheep/goats.
3. Explain the principles of genetic herd improvement.
4. Explain the female reproductive cycle of the cow/sheep/goat.
5. Develop a feeding program for beef/sheep/goat at various life stages.
6. Develop an on-farm biosecurity program with standard operating procedures (SOPs).
7. Develop a replacement animal management plan.
8. Describe the management needs of beef/sheep/goats - in terms of management of bull/ram/buck, calf/lamb/kid management.
9. Explain maternity challenges of beef/sheep/goat.
10. Apply animal welfare principles to develop safe animal handling and housing procedures.
11. Identify the clinical signs of common diseases of beef/sheep and goat.

Recommended Evaluation Methods and Weighting *(Evaluation should align to learning outcomes.)*

Assignments:	40%	Quizzes/tests:	20%	Final exam:	40%
	%		%		%

Details:

One of the assignment is an Animal Care Log - Students will develop a reflective log documenting their days and hours spent doing animal care and barn chores in the UFV Demonstration Barn (worth 20%).

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Texts and Resource Materials *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Online resource	National Farm Animal Care Council	Codes of Practice for Beef Cattle, Goats and Sheep https://www.nfacc.ca/	
2.	Online resource		Merck Veterinary Manual: https://www.merckvetmanual.com	
3.	Textbook	Herren	The Science of Animal Agriculture	
4.	Textbook		Modern Livestock and Poultry Production	
5.	Textbook		Raising Sheep the Modern Way	

Required Additional Supplies and Materials *(Software, hardware, tools, specialized clothing, etc.)*

Coveralls, boots, calculator, notebook, transportation to field trips.

Course Content and Topics

- Sheep introduction to breeds and behavior
- In-barn introduction to principles of beef, sheep and goat care and welfare including global and Indigenous perspectives on care – e.g., European standards of welfare versus Canadian, and Indigenous concepts of Animal Personhood, and Animals as Ancestors.
- Sheep parasites and anthelminthic resistance
- Sheep lameness control and reproduction
- Sheep pregnancy and parturition
- Sheep nutrition principles
- Goat introduction - Breeds and behaviour
- Goat health issues
- Goat nutrition
- Field trip to goat farm
- Markets for goat dairy and meat products
- Field trip to beef farm
- Beef introduction to breeds and behaviour
- Guest speaker from BC Cattlemen's Association
- Beef animal reproduction
- Beef animal health and issues
- Beef animal calf care and nutrition