

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: AGRI 254		Number of Credits: 3 Course credit policy (105)															
Course Full Title: Ruminant Animal Health Course Short Title: <i>(Transcripts only display 30 characters. Departments may recommend a short title if one is needed. If left blank, one will be assigned.)</i>																	
Faculty: Faculty of Applied and Technical Studies		Department (or program if no department): Agriculture															
Calendar Description: <p>The principles of disease infection, treatment, and prevention in ruminant livestock are introduced. Topics also include animal physiology, the principles of ruminant nutrition, reproduction and obstetrics, the incidence of respiratory ailments, nutritional and infectious disease, and health management of dairy and beef cattle and small ruminants.</p> <p>Note: Field trips will be required.</p>																	
Prerequisites (or NONE):		AGRI 237.															
Corequisites (if applicable, or NONE):																	
Pre/corequisites (if applicable, or NONE):																	
Antirequisite Courses <i>(Cannot be taken for additional credit.)</i> Former course code/number: AGRI 134 Cross-listed with: Dual-listed with: Equivalent course(s): <i>(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.)</i>		Special Topics <i>(Double-click on boxes to select.)</i> This course is offered with different topics: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <i>(If yes, topic will be recorded when offered.)</i>															
Typical Structure of Instructional Hours <table border="1"> <tr> <td>Lecture/seminar hours</td> <td>40</td> </tr> <tr> <td>Tutorials/workshops</td> <td></td> </tr> <tr> <td>Supervised laboratory hours</td> <td></td> </tr> <tr> <td>Experiential (field experience, practicum, internship, etc.)</td> <td>5</td> </tr> <tr> <td>Supervised online activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td>Total hours</td> <td>45</td> </tr> </table> <p>Labs to be scheduled independent of lecture hours: <input type="checkbox"/> No <input type="checkbox"/> Yes</p>		Lecture/seminar hours	40	Tutorials/workshops		Supervised laboratory hours		Experiential (field experience, practicum, internship, etc.)	5	Supervised online activities		Other contact hours:		Total hours	45	Independent Study If offered as an Independent Study course, this course may be repeated for further credit: <i>(If yes, topic will be recorded.)</i> <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit	
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Total hours	45																
Transfer Credit Transfer credit already exists: <i>(See bctransferguide.ca.)</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Submit outline for (re)articulation: <input type="checkbox"/> No <input type="checkbox"/> Yes <i>(If yes, fill in transfer credit form.)</i>																	
Grading System <input checked="" type="checkbox"/> Letter Grades <input type="checkbox"/> Credit/No Credit																	
Maximum enrolment (for information only): 25 Expected Frequency of Course Offerings: Annually <i>(Every semester, Fall only, annually, etc.)</i>																	
Department / Program Head or Director:		Date approved: December 2020															
Faculty Council approval		Date approved: December 18, 2020															
Dean/Associate VP:		Date approved: December 18, 2020															
Campus-Wide Consultation (CWC)		Date of posting: February 5, 2021															
Undergraduate Education Committee (UEC) approval		Date of meeting: February 26, 2021															

Learning Outcomes:

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

- Describe the key processes of ruminant reproduction.
- Identify and manage mastitis and related milk quality issues.
- Describe management of the health of young stock and replacement animals.
- Communicate appropriate protocols for ruminant management in all life stages and situations including when to call a veterinarian.
- Recognize the elements of ruminant digestive physiology.
- Discuss the relationship between basic ruminant nutrition and production and health of livestock.
- Recognize digestive ailments and appropriate course of action.
- Describe principles, requirements, recommendations and best practices of ruminant management.
- Summarize the key criteria for managing the health care of ruminants including disease control, injury prevention, and housing.

Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods *(Guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion.)*

Lectures, demonstration labs, practical livestock care in UFV barn, field trips, in-class assignments. One full day attendance at the Fraser Valley Dairy Short Course is mandatory.

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

Typical Text(s) and Resource Materials *(If more space is required, download Supplemental Texts and Resource Materials form.)*

Author	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1. NFACC	Code of Practice: Dairy Cattle	<input checked="" type="checkbox"/>	NFACC	
2. NFACC	Code of Practice: Beef Cattle	<input checked="" type="checkbox"/>	NFACC	
3. NFACC	Code of Practice: Sheep	<input checked="" type="checkbox"/>	NFACC	
4. NFACC	Code of Practice: Goats	<input checked="" type="checkbox"/>	NFACC	
5. Hulsen	Cow Signals: A Practical Guide for Dairy Farm Management	<input checked="" type="checkbox"/>	NFACC	

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

Commercial handouts, course pack, calculator, coveralls, safety boots, transportation to field trips.

Typical Evaluation Methods and Weighting

Final exam:	40%	Assignments:	30%	Field experience:	%	Portfolio:	%
Midterm exam:	20%	Participation	10%	Practicum:	%	Total:	100%

Details (if necessary):**Typical Course Content and Topics****Section 1: Dairy Cattle**

- Dairy cattle behavior
- Housing and cow comfort
- NFACC: The code of Practice for the care of dairy cattle
- Ruminant gastro intestinal tract physiology
- Basic ruminant nutrition principles and relationship to production
- Nutritional diseases in the dairy cow
- Reproductive health – estrous, pregnancy, parturition and transition from dry period
- Ruminant diseases – infectious, non-infectious, zoonotic and reportable
- Herd Health Protocols for vaccination and reproductive health

Section 2: Beef Cattle

- Beef breeds and Canadian beef industry
- Beef production units – cow calf, backgrounding and feedlot units
- Reproduction and related diseases
- Beef cattle nutrition and nutritional diseases
- Infectious diseases, non-infectious diseases, zoonose and reportable diseases
- Animal welfare and verified beef production
- Biosecurity, vaccination protocols and parasite control

Section 3: Small Ruminant

- Introduction to history and current market for small breed production
- Nutrition and digestive physiology of sheep and goats-estrous, breeding, reproduction, and reproductive diseases of sheep and goats
- Biosecurity, flock/herd health and diseases of sheep and goats