

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: AGRI 237		Number of Credits: 3 Course credit policy (105)													
Course Full Title: Introduction to the Health of Farm Animals Course Short Title: Intro: Health of Farm Animals															
Faculty: Faculty of Science		Department (or program if no department): Agriculture Technology													
Calendar Description: Biology and management of common livestock diseases is explored with a focus on prevention and diagnosis. The relationship between nutrition, housing, and welfare on disease susceptibility will be explored. Current and emerging practices for disease treatment will be examined. 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 <i>(Cannot be taken for additional credit.)</i> Former course code/number: AGRI 133, AGRI 137 Cross-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>		Course Details Special Topics course: No <i>(If yes, the course will be offered under different letter designations representing different topics.)</i> Directed Study course: No <i>(See policy 207 for more information.)</i> Grading System: Letter grades Delivery Mode: Face-to-face only Expected frequency: Annually Maximum enrolment (for information only): 25													
Typical Structure of Instructional Hours <table border="1"> <tr> <td>Lecture/seminar</td> <td>25</td> </tr> <tr> <td>Experiential (cultural/elder learning or participation)</td> <td>20</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td>Total hours</td> <td>45</td> </tr> </table>		Lecture/seminar	25	Experiential (cultural/elder learning or participation)	20							Total hours	45	Prior Learning Assessment and Recognition (PLAR) PLAR is available for this course. Examination(s), industry experience	
Lecture/seminar	25														
Experiential (cultural/elder learning or participation)	20														
Total hours	45														
Scheduled Laboratory Hours Labs to be scheduled independent of lecture hours: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		Transfer Credit <i>(See bctransferguide.ca.)</i> Transfer credit already exists: No Submit outline for (re)articulation: Yes <i>(If yes, fill in transfer credit form.)</i>													
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 characteristics of a healthy animal (poultry, ruminant, swine) at all stages of life.
2. Complete a body conditioning score sheet for common livestock animals.
3. Obtain information about the clinical signs of common livestock diseases from reputable sources.
4. Describe the clinical signs associated with common livestock diseases.
5. Describe the basic biology of common livestock pathogens, includes modes of transmission.
6. Explain the connection between animal health and disease susceptibility.
7. Collect samples for submission to a veterinary or other diagnostic lab.
8. Develop a management plan based on results of lab submissions.
9. Explain the role of housing, bedding, and handling on disease prevention.
10. Develop an on-farm biosecurity program for a livestock operation.
11. Develop Standard Operation Procedures (SOPs) for best practices associated with biosecurity.

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		Merck Veterinary Manual https://www.merckvetmanual.com/	
2. Online resource	National Farm Animal Care Council	Codes of Practice for Specific Animal Groups https://www.nfacc.ca/	
3.			
4.			
5.			

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

- Record keeping and digestion
- In-barn introduction to principles of animal 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.
- Digestion in ruminants
- Nutrients and their analysis
- Nutrients and diet formulation principals
- Feed processing plant field trip
- Feed processing practices
- Potential guests – BC Agriculture Animal Health Laboratory Technician/Veterinarian and feed processing company representative
- Cadaver – ruminant anatomy
- Respiratory diseases and control
- Vaccinations and herd immunity
- Diseases of the digestive system
- Diseases of the mammary system
- Surgical conditions in farm animals