

**The University of Manitoba
Faculty of Agricultural and Food Sciences**



Course Information

Course Title: ANIMAL HEALTH

Department: Animal Science

Academic Session: Winter 2018

Prerequisites: ANSC 0420 Animal Biology and Nutrition

Meeting Days: M/W/F

Classroom Location: 107 Animal Science

Course Number: ANSC 4500

Credit Hours: 3

Class Hours: 8:30 – 9:30 am

Instructor Information

Name & Title: Dr. Heather Wilton, DVM

Office Location: Room #236 Animal Science

Phone: (204)750-1298

E-mail: tobaccocreeksheep@gmail.com

Office hours: Usually available before and after class or by appointment

Course Philosophy

Students are expected to:

- Attend all classes and actively participate in in-class activities
- All assignments are to be completed satisfactorily, even if they are not being graded
- Check the course site several times a week to access course information
- Check university email several times a week to access course information
- Seek clarification from instructors as required, regarding the contents of this course outline
- Comply with University of Manitoba Policies and Procedures
- Be respectful of others in the classroom, both classmates and the instructor. This means listening attentively and not disturbing others by talking or texting. Use of cell phones and all other personal communications devices in the classroom is prohibited.

Why is the course useful?

1. It will provide opportunities to develop an understanding of common livestock and poultry diseases in the prairie provinces.
2. It will provide an opportunity to appreciate the critical role preventative measures and health management programs play in Canadian livestock agriculture; treatment of specific diseases will also be addressed.
3. It will provide an opportunity to discuss animal welfare as it relates to commercial livestock production today.

**ANSC 4500 ANIMAL HEALTH
WINTER TERM 2018**

Lecture: 8:30 – 9:30 am M/W/F

Room: 107 Animal Science

Labs: None

Instructor: Dr. Heather Wilton Rm #236 Animal Science

Email: tobaccocreeksheep@gmail.com Tel. (204)750-1298

Office hours: By appointment

Course Objectives: To facilitate the acquisition of knowledge and understanding of animal health and welfare. We will discuss identifying sick vs healthy animals and normal or abnormal behaviour in the context of the system, age, and production stage. We will cover the basic causes of disease and look at a few common diseases and how to treat or manage them, including when to call the veterinarian. We will learn about animal welfare – what this is and how it affects farming to day. This will include looking at, and discussing, the Animal Care Codes. We will talk about biosecurity and its impact on the farm, and up to the national level – what it means, how to implement it, the benefits both in health and trade. We will cover humane animal handling and emergency management. The students should also come to understand the basic biological principles of vaccinations and how boosters work. They should be able to apply the concepts to a production system at the appropriate management time to achieve the best protection. We will discuss specific diseases unique to various species. The student will learn the importance of reportable diseases in Canada.

The learning will be encouraged through lectures, discussion classes, guest speakers, assignments, and a poster presentation. The **first assignment** will allow individual students to prepare a fact sheet about a specific disease. The **second assignment** will be another fact sheet of a specific welfare issue or another disease chosen by the student.

EVALUATION

| | |
|--|-----|
| Midterm 1 (Feb. 5th) | 15% |
| Midterm 2 (March 16th) | 15% |
| Final Exam (TBA) | 50% |
| Assignment #1 (Feb. 16th) | 10% |
| Assignment #2 (March 23rd) | 10% |

Assignments are due by 4:30 pm if being submitted as hard copies or 9:00 pm if submitted by email. Electronic copies in a PDF form are preferred. When submitting assignments by email, the students should not consider their assignment submitted **unless they receive a conformation email** from the instructor. Late submission of assignments will be penalized by 10% of the mark per day, unless prior permission has been approved.

Please refer to the General Academic Regulations and Policy section of the 2016-2017 University undergraduate calendar and in particular the statements on 'plagiarism and cheating' and 'examinations-personations'.

Course Content

| Topic | |
|----------------|---|
| Jan. 3 | Introduction, Class Outline, Expectations, Grading System |
| 5 | • Signs of Disease |
| 8 | • Signs of Disease |
| 10 | • Signs of Disease |
| 12 | • Infectious Cause |
| 15 | • Infectious Cause |
| 17 | • Infectious Cause |
| 19 | • Immunity GUEST SPEAKER |
| 22 | • Immunity GUEST SPEAKER |
| 24 | • Infectious Cause 2 |
| 26 | • Infectious Cause 2 |
| 29 | • Infectious Cause 2 |
| 31 | • Colostrum |
| Feb. 2 | • Breeding |
| 5 | • Midterm Exam 1 |
| 7 | • Welfare |
| 9 | • Welfare |
| 12 | • Humane Handling |
| 14 | • Bio-security |
| 16 | • Bio-security / Emergency Care Assignment 1 DUE |
| 19 – 23 | • Reading Week |
| 26 | • Animal Health Products |
| 28 | • Welfare GUEST SPEAKER |
| March 2 | • Needles / Reportable Diseases |
| 5 | • Reportable Diseases |
| 7 | • Chickens |
| 9 | • Chickens |
| 12 | • Rumen / Bovine Metabolic Disease |
| 14 | • Bovine Metabolic Disease |
| 16 | • Midterm exam 2 |
| 19 | • Mastitis |
| 21 | • Equine |
| 23 | • Equine Assignment 2 DUE |
| 26 | • Transport GUEST SPEAKER |
| 28 | • Sheep |
| 30 | • Good Friday NO CLASS |
| April 2 | • Goats |
| 4 | • Swine |
| 6 | • Last Class |

Who should take this course?

All students who desire a career in the livestock industry.

How does this course fit into the curriculum?

1. Technical knowledge relating to animal health, specific diseases and health programs (preventative measures)
2. Appreciation for broader industry welfare issues and how they potentially impact Canadian livestock production and policy

General Course Description

This course will discuss basic responses of domestic animals to challenge by disease causing agents. Emphasis will be placed on disease prevention by management and health program strategies.

Animal welfare as it relates to the farmed animal industry will be discussed.

Instructional Methods

1. Lectures
2. Experiential learning opportunities (interactive class discussions, individual and/or group project or assignments)

Reference material will be brought to the student's attention and handouts will be posted on UM LEARN. There is no textbook for this course.

Learning Outcomes

Students will:

- Be able to identify sick vs healthy animals, and normal or abnormal behaviour in the context of the system, age, and production stage.
- Understand the basic causes of disease and know a few common diseases and how to treat or manage them, including when to call the veterinarian.
- Learn about animal welfare – what this is and how it affects farming to day. This will include understanding the Animal Care Codes and their importance to the industry.
- Understand biosecurity and its impact on the farm, and up to the national level – what it means, how to implement it, the benefits both in health and trade.
- Cover humane animal handling and emergency management.
- Understand the basic biological principles of vaccinations and how boosters work.
- Be able to apply the above concepts to a production system at the appropriate management time to achieve the best protection.
- Learn the importance of reportable diseases in Canada.

The Lectures

During each class period, a 45 minute lecture will be presented, dealing with the topic of a particular unit. Guest speakers will be delivering certain unit lectures and class attendance is compulsory. Day to day scheduling, including due dates and the lecture order and topics, may change during the course. All revisions for relating to schedule and due dates will be posted on UM LEARN and/or email. Students are responsible for monitoring UM LEARN and meeting all course requirements including revised due dates for assignments.

Mark Distribution

| | Percent of Grade |
|---------------|-------------------------|
| Midterm 1 | 15% |
| Midterm 2 | 15% |
| Final Exam | 50% |
| Assignment #1 | 10% |
| Assignment #2 | 10% |
| Total | 100% |

Course Content

| Topic | |
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| 9 | • Welfare |
| 12 | • Humane Handling |
| 14 | • Bio-security |
| 16 | • Bio-security / Emergency Care Assignment 1 DUE |
| 19 – 23 | • <i>Reading Week NO CLASS</i> |
| 26 | • Animal Health Products |
| 28 | • Welfare GUEST SPEAKER |
| March 2 | • Needles / Reportable Diseases |
| 5 | • Reportable Diseases |
| 7 | • Chickens |
| 9 | • Chickens |
| 12 | • Rumen / Bovine Metabolic Disease |
| 14 | • Bovine Metabolic Disease |
| 16 | • Midterm exam 2 |
| 19 | • Mastitis |
| 21 | • Equine |
| 23 | • Equine Assignment 2 DUE |
| 26 | • Transport GUEST SPEAKER |
| 28 | • Sheep |
| 30 | • <i>Good Friday NO CLASS</i> |
| April 2 | • Goats |
| 4 | • Swine |
| 6 | • Last Class |

Important Dates

| | |
|--------------------------------|---------------------|
| Feb. 5th | Midterm 1 |
| Feb. 9th | Guest Speaker |
| Feb. 16th | Assignment #1 due |
| Feb. 19-23rd | Reading Week |
| March 16th | Midterm 2 |
| March 23rd | Assignment #2 due |
| March 26th | Guest Speaker. |
| April 6th | Last day of classes |

Description of Assignments

1. Fact sheet on livestock disease
2. Fact sheet on a welfare topic or another livestock disease

Course Policies

Late Assignments: Assignments are due by 4:30 pm, on the due date, if being submitted as hard copies or 9:00 pm if submitted by email. When submitting assignments by email, the students **should not consider their assignment submitted unless they receive a conformation email** from the instructor. Email submission is preferred. File should be submitted as a PDF. Late submission of assignments will be penalized by 10% of the mark per day (24 hr), unless prior permission has been received.

Missed Assignments: Unexcused missed assignments will be given a grade of zero. When an assignment is missed because of circumstances beyond the student's control other arrangements can be made if the student shows written notification such as a doctor's certificate of illness, evidence of death in the family, etc. The student may be given the following options: 1) complete the assignment and receive the late assignment penalty as described above; 2) establish a new due date with the instructor and complete the assignment without penalty when handed in by the new due date; or, 3) the final grade will be determined by increasing the value of the final examination by the amount that would have been allocated to the missed assignment.

Missed Exams: Unexcused missed exams will be given a grade of zero. Where exams other than the final exam are missed and excused through written notification such as a doctor's certificate of illness, evidence of death in the family, or other circumstances that are beyond the control of the student, the student may be given the following options: 1) re-schedule a date for the exam with the instructor and complete the exam at that time (the instructor has the option to set a different exam); or, 2) the final grade will be determined by increasing the value of the final examination by the amount that would have been allocated to the missed exam. If the final exam is missed and an appropriate excuse has been provided, another exam date will be set at the discretion of the instructor.

Academic Integrity: All University of Manitoba guidelines apply in this class. See University of Manitoba's Undergraduate Calendar 2017-2018. Pay special attention to the General Academic Regulations and Requirements, Section 7 "Attendance and Withdrawal" and Section 8 "Academic Integrity". Students should familiarize themselves with these policies.

Students needing assistance are encouraged to use the 2017/2018 Student Guide and/or contact the Student Academic Advisor

Writing and Learning Support

The Academic Learning Centre (ALC) offers services that may be helpful to you throughout your academic program. Through the ALC, you can meet with a learning specialist to discuss concerns such as time management, learning strategies, and test-taking strategies. The ALC also offers peer supported study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In these study groups, students have opportunities to ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

You can also meet one-to-one with a writing tutor who can give you feedback at any stage of the writing process, whether you are just beginning to work on a written assignment or already have a draft. If you are interested in meeting with a writing tutor, reserve your appointment two to three days in advance of the time you would like to meet. Also, plan to meet with a writing tutor a few days before your paper is due so that you have time to work with the tutor's feedback.

These Academic Learning Centre services are free for U of M students. For more information, please visit the Academic Learning Centre website at: <http://umanitoba.ca/student/academiclearning/>

You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 201 Tier Building.

University of Manitoba Libraries (UML)

As the primary contact for all research needs, your liaison librarian can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you may have, regarding the research process. Liaisons can be contacted by email or phone, and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject: <http://bit.ly/WcEbA1> or name: <http://bit.ly/1tJ0bB4>. In addition, general library assistance is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage: www.umanitoba.ca/libraries.

For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.

Student Counselling Centre

Contact SCC if you are concerned about any aspect of your mental health, including anxiety, stress, or depression, or for help with relationships or other life concerns. SCC offers crisis services as well as individual, couple, and group counselling. *Student Counselling*

Centre: <http://umanitoba.ca/student/counselling/index.html>

474 University Centre or S207 Medical Services
(204) 474-8592

Student Support Case Management

Contact the Student Support Case Management team if you are concerned about yourself or another student and don't know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team.

Student Support Intake Assistant <http://umanitoba.ca/student/case-manager/index.html>

520 University Centre
(204) 474-7423

University Health Service

Contact UHS for any medical concerns, including mental health problems. UHS offers a full range of medical services to students, including psychiatric consultation.

University Health Service <http://umanitoba.ca/student/health/>

104 University Centre, Fort Garry Campus
(204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness

Contact our Health and Wellness Educator if you are interested in information on a broad range of health topics, including physical and mental health concerns, alcohol and substance use harms, and sexual assault.

Health and Wellness Educator <http://umanitoba.ca/student/health-wellness/welcome.html>

Katie.Kutryk@umanitoba.ca

469 University Centre
(204) 295-9032

Live Well @ UofM

For comprehensive information about the full range of health and wellness resources available on campus, visit the Live Well @ UofM site:

<http://umanitoba.ca/student/livewell/index.html>

A notice with respect to copyright:

All students are required to respect copyright as per Canada's *Copyright Act*. Staff and students play a key role in the University's copyright compliance as we balance user rights for educational purposes with the rights of content creators from around the world. The Copyright Office provides copyright resources and support for all members of the University of Manitoba community.

Visit <http://umanitoba.ca/copyright> for more information.

Your rights and responsibilities

As a student of the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.

The [Academic Calendar](http://umanitoba.ca/student/records/academiccalendar.html) <http://umanitoba.ca/student/records/academiccalendar.html> is one important source of information. View the sections *University Policies and Procedures* and *General Academic Regulations*.

While all of the information contained in these two sections is important, the following information is highlighted.

- If you have questions about your grades, talk to your instructor. There is a process for term work and final **grade appeals**. Note that you have the right to access your final examination scripts. See the Registrar's Office website for more information including appeal deadline dates and the appeal form <http://umanitoba.ca/registrar/>
- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the **Academic Integrity** regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support <http://umanitoba.ca/academicintegrity/> View the **Student Academic Misconduct** procedure for more information.
- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected conduct yourself in an appropriate respectful manner. Policies governing behavior include the:

Respectful Work and Learning Environment

http://umanitoba.ca/admin/governance/governing_documents/community/230.html

Student

Discipline http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html and,

Violent or Threatening

Behaviour http://umanitoba.ca/admin/governance/governing_documents/community/669.html

- If you experience **Sexual Assault** or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The **Sexual Assault** policy may be found at: http://umanitoba.ca/admin/governance/governing_documents/community/230.html More information and resources can be found by reviewing the Sexual Assault site <http://umanitoba.ca/student/sexual-assault/>

- For information about rights and responsibilities regarding **Intellectual Property** view the policy [http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy - 2013_10_01.pdf](http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy_-_2013_10_01.pdf)

For information on regulations that are specific to your academic program, read the section in the Academic Calendar and on the respective faculty/college/school web site <http://umanitoba.ca/faculties/>

Contact an **Academic Advisor** within our faculty/college or school for questions about your academic program and regulations <http://umanitoba.ca/academic-advisors/>

Student Advocacy

Contact Student Advocacy if you want to know more about your rights and responsibilities as a student, have questions about policies and procedures, and/or want support in dealing with academic or discipline concerns.

<http://umanitoba.ca/student/advocacy/>

520 University Centre

204 474 7423

student_advocacy@umanitoba.ca