



**University
of Manitoba**

**Faculty of Agricultural and Food Sciences
Department of Animal Science**

**ANSC 4500 - Animal Health
Winter Term 2022**

COURSE DETAILS

Course Title & Number:	ANSC 4500 Animal Health
Number of Credit Hours:	3.0
Class Times & Days of Week:	8:30 – 9:20 pm on Monday, Wednesday, and Friday
Location for classes	Remotely through UM-Learn, then select Integrations > UM Zoom
Pre-Requisites:	ANSC 2520 or equivalent.

Instructor Contact Information

Instructor(s) Name:	Argenis Rodas-González
Preferred Form of Address:	Anything polite
Office Location:	Animal Science/Entomology Building RM 229
Office Hours or Availability:	Make an appointment, send an email or call me
Office Phone No.	(204)474-9523
Email:	Argenis.RodasGonzalez@umanitoba.ca
Contact:	If you want to contact me an email with the subject heading Food 3500 and your name is best, but you can see me after a class session. I expect to respond telephone and email queries within 24-48 hours (circumstances permitting) during the week. I will not normally be checking my email or UM-Learn on weekends and holidays.

Course Description

This course will discuss the common livestock and poultry diseases of the Prairie Provinces. Emphasis will be placed on knowing the causes of the disease and how to prevent them through management and health programs. Also, Animal welfare as it relates to commercial animal production will be discussed.

General Course Information

The course provides basic animal functions and response to challenge by potentially pathogenic organisms, genetic or metabolic disorders, and toxicants. Strategies for prevention and treatment will be outlined. Discussions will focus on identifying sick animals from healthy animals, recognizing abnormal and normal animal behaviour in the context of the system of production (i.e. confinement, etc), age, and stage of production. Basic causes of animal diseases, symptoms and treatment of the diseases (reportable and notifiable diseases) will be discussed. Biosecurity measures on farm will also be discussed. Biological principles of immune response, vaccination (i.e. live vs dead; prime and booster doses), antimicrobial use and drug residues will also be discussed, along with the impact of animal welfare on current and future production systems.

Learning Outcomes

At the end of the courses, students should be able to:

- 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.

Using Copyrighted Material

Please respect copyright. We will use copyrighted content in this course. I have ensured that the content I use is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including those created by me, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM

Learn), or any website, unless an exception to the *Copyright Act* applies or written permission has been confirmed. For more information, see the University's Copyright Office website at <http://umanitoba.ca/copyright/> or contact um_copyright@umanitoba.ca.

Recording Class Lectures

Dr. Rodas-González and the University of Manitoba hold copyright over the course materials, presentations and lectures which form part of this course. The remote synchronous teaching classes will be recorded for later on to be post it in the UM Learn, in consequence, be aware if you joint to the class, you are authorizing be recorded it. Beyond that, no other audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission from Dr. Rodas-González. Course materials (both paper and digital) are for the participant's private study and research only, and must not be uploaded to the internet or shared in any way either physically or electronically.

Textbook, Readings, Materials

Required textbook

There is no required text for this course, but the following are recommended:

- The Merck Veterinary Manual by Merck
- Veterinary Medicine: a textbook of the diseases of cattle, sheep, pigs, goats and horses by Radostits.
- Poultry diseases by Pattison, Mark.

Course Technology

This course is delivered remotely. It uses a combined synchronous-asynchronous course design in lectures. Students are expected to be online during the scheduled class times and are expected to log in between class times to keep up with discussion and readings.

Your computer or device, and Internet connection must meet the UM minimum requirements found here <https://centre.cc.umanitoba.ca/wp-content/uploads/2020/04/Student-Connectivity-Recommendations.pdf>, <https://centre.cc.umanitoba.ca/wp-content/uploads/2020/04/Student-Connectivity-Recommendations.pdf> . These are required for all Fall 2020 classes. Students must have Zoom and i-Clicker installed.

The instructor could use e-proctoring technology such as Respondus Lockdown Browser and Monitor or Webex as proctoring tools.

UM Learn: Class notes and lab material will be posted on UMLearn. You should be aware that the notes posted are not complete and will require you to attend class to fill in key details. The instructor will spend a few minutes on the first day of classes demonstrating where these can be found in UMLearn.

Zoom: lectures will be delivered through this platform (UM Zoom-to-UM Learn integration).

iClickers: Students can use an **iClicker**, or the **iClicker Reef app** for answering questions during lecture and lab throughout the duration of the course.

For more information on how to set up and use iClicker Cloud in your course, visit:

<https://universityofmanitoba.desire2learn.com/d2l/le/content/6606/viewContent/1432626/View>

If you have questions or need help, contact IST Service Desk (servicedesk@umanitoba.ca or 204-474-8600).

Respondus Lockdown Browser and Monitor or Zoom as proctoring tools

Cell phones and laptop computers: It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. The student can use all technology in the classroom setting only for educational purposes approved by the instructor and/or the University of Manitoba Disability Services. Students should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline “gaming” during scheduled class time. If a student is on call (emergency), the student should switch his/her cell phone on vibrate mode and leave the classroom before using it. (adapted from ©[S Kondrashov](#). Used with permission)

Material for this course is uploaded to UM Learn. Please see this link for support:

http://intranet.umanitoba.ca/academic_support/catl/resources/359.html

Class Communication

The University requires all students to activate an official University email account. For full details of the Electronic Communication with Students please visit:

http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf

Please note that all communication between you as a student and myself must comply with the electronic communication with student policy:

(http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html). You are required to obtain and use your U of M email account for all communication between yourself and the university.

Students Lounge in UM Learn: Post your questions or answers regarding getting access to UM Learn or doubts or material errors

Student Etiquette for Remote Learning

- ❖ Find a quiet area for live class sessions
- ❖ Choose a location with a reliable internet connection

- ❖ Have a power outlet near the workspace if the device needs to be charged
- ❖ Use a desk or a table for your computer/laptop/iPad that can hold any additional resources needed for class
- ❖ Beware of your surroundings (i.e., pictures/posters on wall behind you; things that you are doing – any things/people you do not want others to see during the live class)
- ❖ Attend classes on time or even a few minutes early to ensure there are no difficulties
- ❖ Be dressed appropriately during live/class meetings. Dress as you would normally do attending in-person classes
- ❖ Remove any distractions during live class sessions – turn off cellphones, no text messaging, no television, web browsing, email, etc
- ❖ Be respectful and courteous to fellow students, instructors and guest speakers at all times during live sessions. Remember you are still attending class!
- ❖ Come prepared for live sessions. Read the textbook and assigned readings prior to class. Not all the textbook/readings will be covered in the lectures and not all material covered in the lecture is found in the course textbook/readings.
- ❖ Be aware that all live classes may be recorded and archived for students to view. If you do not want to be recorded, please turn off audio and video.
- ❖ The UM-Learn Discussion Forum may be used for group participation. Communication must be respectful and thoughtful.

Expectations: I Expect You To

- a) Attend,
- b) Participate,
- c) Demonstrate a willingness to learn,
- d) Be courteous,
- e) Show academic integrity and honesty.
- f) Work effectively as a team to design and execute class activities.
- g) Not to leave the class before it ends unless there is an emergency to which you must attend. Leaving a class before the end is disrespectful to your instructor and disruptive towards your fellow students.
- h) Not use your cell phone- Please be respectful in class and turn your cell phone off or onto vibration mode for the duration of the class.
- i) Use your laptop computers to aid your learning- Laptops are a perfect way to take notes in class and share information with peers; be respectful to the instructor and other students while using laptops by staying on task in class. Answer questions that I will ask of the class. I do not expect you always (or ever!) to get the correct answer, but I do expect you to try and to participate.

See [Respectful Work and Learning Environment Policy](#).

Expectations: You Can Expect Me To

- a) To treat you fairly and with respect.
- b) To be available for consultation regularly.

- c) To treat all your questions and comments with respect and to take your concerns seriously.
- d) To remain in the classroom for 5 minutes after class to answer any immediate questions.
- e) To provide clarification or explanation at the time in class for any doubt.
- f) To offer advice about class materials, assignments, or exams.
- g) To grade and return the assignments and exams within 2 weeks of the due date; late assignments will be graded as my time permits.
- h) To ask questions and gives everyone a chance to participate in class.

Academic Integrity

Plagiarism or any other form of cheating in examinations, term tests or academic work is subject to serious academic penalty. Cheating in examinations or tests may take the form of copying from another student or bringing unauthorized materials into the exam room. Exam cheating can also include exam impersonation. A student found guilty of contributing to cheating in examinations or term assignments is also subject to serious academic penalty. Students should acquaint themselves with the University's policy on plagiarism; cheating, exam impersonation and duplicate submission (http://umanitoba.ca/student/resource/student_advocacy/media/Advoc-Cheat-Booklet-rev04-web.pdf).

Students Accessibility Services

In this course we support a climate of respect in the workplace and in the learning environment where individuals or groups of individuals are free from harassment and discrimination. For more information in this policy visit the following link:

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

Student support: Justin Bouchard, Diploma Academic Advisor
160 Agriculture Bldg.
Phone: 204-474-8269
e-mail: justin.bouchard@umanitoba.ca

[Responsibilities of Academic Staff with Regard to Students](#) (ROASS)

[Final Examination and Final Grades Policy](#)

[Respectful Work and Learning Environment Policy](#)

[Sexual Assault Policy](#)

[Student Advocacy Office Policy](#)

Student [Academic](#) and [Non-Academic](#) Misconduct Policies

[Student Discipline Appeal Procedure](#)

[The University of Manitoba Accessibility Policy](#)

[University Health Services Policy](#)

If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services <http://umanitoba.ca/student/saa/accessibility/>

520 University Centre

204 474 7423

[Student_accessibility@umanitoba.ca](mailto:student_accessibility@umanitoba.ca)

Respectful Work and Learning Environment

In this course we support a climate of respect in the workplace and in the learning environment where individuals or groups of individuals are free from harassment and discrimination. For more information in this policy visit the following link:

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Assignment Grading Times

All assignments handed in on time will be graded and returned within 2 weeks of the due date; late assignments will be graded as my time permits.

Assignment Extension, Late Submission Policy, Make up exams or absence

Attendance is essential to student success in this course.

Students are not required to provide medical notes in support of absences from class activities/requirements and from evaluations including final examinations. However, students need to report to the instructor within 48 hours after missing a class/quiz/test/assignment.

Assignment extensions make up exams or absence on required days will be given only with the professor's permission, and it will grant in cases of genuine need (sickness, death or funeral of a close relative). You will need to talk to me in person as soon as possible if you require an extension.

Late submissions will be marked, but do not expect a prompt return of the work. Late submission will incur a deduction of 5% for each weekday that the assignment is submitted after the deadline, unless an assignment extension has been permitted by me in advance of the deadline.

Arrangements should be made with the professor in the case of missed exams.

Additional comments

If you have any conflict with these scheduled lecture exams, talk to the professor now (that is, at the beginning of the semester). Please don't wait until the exam is upon us to present your conflict.

Use of Third Party Detection and Submission Tools

Electronic detection tools may be used to screen assignments in cases of suspected plagiarism. If you are struggling with coursework or any of life's other challenges please familiarize yourselves with the resources available in to you by visiting the Student Affairs website at <http://umanitoba.ca/student/index.html> The site contains helpful general information as well as links to webpages for the Aboriginal Student Centre, the International Centre for Students, the Academic Learning Centre, Student Advocacy & Accessibility, the Student Counselling & Career Centre, and University Health Service.

Important Dates

Drop a course without penalty is February 4, 2022.

Voluntary withdrawal date: April 25, 2022.

Class Schedule

This schedule is subject to change at the discretion of the instructor and/or based on the learning needs of the students but such changes are subject to Section 2.8 of the – [ROASS](#)- Procedure.

MONTH	DATE	CHAPTER	UNIT/ TOPIC
Jan	24	Infectious causes of diseases	Introductions and syllabus
	26		Signs of disease
	28		Signs of disease
	31		Infectious causes of diseases
Feb	02	Infectious causes of diseases	Infectious causes of diseases
	04		Infectious causes of diseases
	07		Biosecurity
	09	Veterinary drugs	Immunity and vaccination (Dr. Richard Hodges, Vet Services)
	11		Administration of drugs (Dr. Richard Hodges, Vet Services)
	14		QUIZ Infectious causes of diseases
	16		Antimicrobial use Regulation in Animal Production (Amy Johnson)
	18	Animal health products – residues, food safety	
	21-25		Louis Riel Day / Mid Term Break
	28		QUIZ Veterinary drugs
	02	Animal	Animal Welfare and Housing
	04		Humane Transportation of animals
	07		Animal Welfare – Cattle - Dr. Meagan King

Mar	09	Welfare	Animal Welfare – Swine – Mark Fynn MPC Mark Fynn from Manitoba Pork Council
	11		Animal Welfare – Poultry – Dr Wei Jia from Manitoba Egg Producers
	14		Animal Welfare at the slaughter plant
	16	Common animal production diseases	No classes
	18		No classes
	21		QUIZ Animal welfare
	23		Student presentation
	25		Student presentation
	28		Student presentation
30	Student presentation		
April	01		Student presentation
	04	Reportable and notifiable diseases	Student presentation
	06		Student presentation
	08		Student presentation
	11		Student presentation
	13		Student presentation
	15		Good Friday
	18		Wrap-up
	20		Wrap-up
	22		Wrap-up
25		Last day of class for winter term	
April 26 to May 3			Winter Term examination period

Course Evaluation Methods

Course evaluation components include a term test, two pop quizzes and group assignment and a final examination.

Assignments	Grade
Midterm exams (three at 10% each)	30%
Group presentation (two per group at 15% each)	30%
Class participation	10%
Final examination	30%

Grading

Indicate your grading scale. A sample is given below that you can adjust to your course expectations.

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	92-100	4.25-4.5	4.5
A	84-91	3.75-4.24	4.0
B+	77-83	3.25-3.74	3.5
B	70-76	2.75-3.24	3.0
C+	65-69	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Assignment Descriptions

Midterm exams: 30%

Short answer, short essay, multiple choices, fill the blank, true/false and/or matching.

Group presentation: 30%.

Groups containing two persons each will be established by the instructor randomly. An ideal group will contain people with as diverse a background as possible. The groups formed will be maintained for the entire course. Each group will deliver two presentations, the first one will be related to "Common animal production diseases", and second one will be on "Reportable and notifiable diseases." The topics in each group will assigned by the instructor. The groups, topics, date and rubric for the presentation will posted on UM Learn. The groups will post their presentations in UM Learn, so all the students will have access to them, which will be as part of the final exam.

The presentation has to contain the following items for each disease: a) transmission, epidemiology and pathogenesis, b) clinical findings, lesion and diagnosis, and c) treatment and control

Class Participation: 10%

Each class member is expected to contribute to some of the class discussions: asking and responding to questions, making comments or observations.

It will be used iClicker student response system in class this term. iClicker helps me to understand what you know and gives everyone a chance to participate in class.

The new iClicker Cloud software allows students to use their mobile devices to answer polling questions with no additional cost to them.

Grades from polling sessions can be stored on iClicker Cloud for retrieval at a later time or linked to your UM Learn course gradebook.

For more information on how to set up and use iClicker Cloud in your course, visit:

<https://universityofmanitoba.desire2learn.com/d2l/le/content/6606/viewContent/1432626/View>

If you have questions or need help, contact IST Service Desk (servicedesk@umanitoba.ca or 204-474-8600).

Final examination: 30%

The final exam will be comprehensive and will cover all lectures, including group presentation.