



University of Manitoba
Faculty of Agricultural and Food Sciences
Department of Animal Science

ANSC 0600 ANIMAL HEALTH AND WELFARE

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COURSE DETAILS

Course Title & Number:	ANSC 0600 Animal Health and Welfare
Number of Credit Hours:	3.0
Class Times & Days of Week:	10:00 – 11:15 on Tuesday and Thursday
Location for classes	344 J.H. Ellis Building
Pre-Requisites:	ANSC 0420 or equivalent.

Instructor Contact Information

Instructor(s) Name:	Dr. George N. Gozho
Preferred Form of Address:	Dr. Gozho
Office Location:	226 Animal Science Building
Office Hours or Availability:	Open door policy – no appointment necessary but please call or e-mail to confirm availability between 8:30 am and 4:30 pm.
Office Phone No.	204-474-9443
Email:	George.gozho@umanitoba.ca
	All email communication must conform to the Communicating with Students university policy. (Please familiarize yourself with the policy). Use the subject line to state the reason for your e-mail and add the course number. This will help me to quickly determine which e-mails need urgent attention. Please informal salutations in your correspondences. I will screen e-mails based on the subject line and salutation and respond within 36 hours during the week only. I do not check my work e-mail over the weekend.
Contact:	My preference for communication is in person. Use e-mail communication only when absolutely necessary. However, you are welcome to phone my office if that is more convenient than coming in person.

Course Description

This course will discuss the common livestock and poultry diseases of the Prairie Provinces. Emphasis will be placed on prevention through management and health programs but treatment of specific diseases will be addressed. Animal welfare as it relates to commercial animal production will be discussed. The Prerequisite for this course is ANSC 0420. This is an introductory course in animal structure and function. It deals with genetics, growth and reproduction will in farm animals as well as nutrition and utilization of nutrients.

General Course Information

The course provides an opportunity to students in the diploma in agriculture program to have a better understanding of animal health and welfare issues relevant to Manitoba and Canada. 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 will be discussed. The impact of animal welfare on current and future production systems will be discussed. Biosecurity measures on farm will also be discussed. Codes of Practice for the care and handling of farm animals developed by the National Farm Animal Care Council (NFACC) will be used to illustrate how animal production systems incorporate humane handling and care for animals and thus animal welfare. The impact of animal welfare on animal production and trade will be discussed. Biological principles of vaccination (i.e. live vs dead; prime and booster doses) will also be discussed. These concepts are important for students to gain an appreciation of the importance of timely vaccinations in order to achieve the best protection against pathogens.

Intended Learning Outcomes

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

- a) Describe health and disease in the context of health management
- b) Describe the association of common diseases with suboptimum productivity or welfare
- c) Describe the risk factors, causes, symptoms, interrelationships and preventative management of common infectious diseases.
- d) Describe the basic animal welfare requirements and the implications of suboptimum animal welfare on animal performance and susceptibility to diseases
- e) Identify the relative importance of common diseases of cattle, swine, and poultry in Canada

Using Copyrighted Material

Please respect copyright. The content used in this course 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.

Recording Class Lectures

No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without explicit permission from me. Course materials (both paper and digital) are for your private study and research.

Textbook, Readings, Materials

Required textbook

There is no required text for this course.

Course Technology

Lecture notes will be posted on UMLearn and students are encouraged to review and or print their own copy of the notes that they bring class. Hard copies of notes will **not** be provided to students. Laptops and tablets can be used to take notes during lectures. However 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 is not permitted. Anyone expecting to receive important telephone calls during the lecture should switch their cell phones to vibrate mode and leave the classroom upon reception of such calls to minimize disrupting class activities.

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](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.

Expectations: I Expect You To

- a) Attend class on time.
- b) Ask for help.
- c) Work together on assignment problems other than exams (but prepare your individual answers independently)
- d) To act in a civil, respectful, and responsible manner toward all members of the U of M community

Academic Integrity:

Plagiarism or any other form of cheating in the final examination, 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 (See Section 7 in the online calendar: [http://webapps.cc.umanitoba.ca/calendar11/Academic Regulations.pdf](http://webapps.cc.umanitoba.ca/calendar11/Academic%20Regulations.pdf))

For assignment work, students are encourage to work together on problems – the purpose of assignments is to understand the material. The completed assignment work that students pass for grading must be in their own words. If the Internet or published material is used in preparing such work, they must be properly referenced.

Students Accessibility Services

Student Accessibility Services

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

Expectations: You Can Expect Me To

- a) Attend and deliver lectures on time.
A large part of my teaching practice includes the use of PowerPoint presentations in class.
- b) Help you to understand the content and subject matter related to this course.
I expect students to either interrupt me or come and see me immediately after the lecture if there is anything that is not clear. I will help you as much as I can to succeed in this course

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	UNIT/ TOPIC
January	4	Introductions and syllabus
	9	Signs of disease
	11	Infectious causes of diseases
	16	Classes cancelled – Full day trip to Ag. Days in Brandon
	18	Biosecurity
	23	Mastitis
	25	No classes Morning – Field trip for DAGR 0680 & 0690 KAP Annual Meeting Afternoon - DAGR 0680 & 0690 Manitoba Young Farmer Conference
	30	Immunity and vaccination
February	1	Animal health products – residues, food safety
	6	Animal health products – residues, food safety
	8	Breeding, pregnancy and parturition
	13	Midterm Test
	15	Ventilation
	20	Midterm Break (No class but university will be open)
	22	Midterm Break (No class but university will be open)
	27	Animal Welfare
March	1	Animal welfare
	6	Transportation of animals
	8	Human handling and emergency care
	13, 15	Poster presentations
	20	Reportable diseases, response and impact on the industry
	22	Metabolic diseases
	27	Review – Last class

Course Evaluation Methods

Course evaluation components include a term test, two assignments and in-class participation.

Missed Exams

A missed exam will receive a score of zero unless the student provides a medical certificate giving the reason for missing the exam.

Due Date:	Assessment Tool	Value of Final Grade
February 13, 2018.	Term Test	30%
February 27, 2018	Fact sheet	15%
March 15, 2018	Poster Presentation	15%
Unannounced quiz and Q&A	In-class Participation	10%
University Final Exam schedule	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

Referencing Style

Assignments should use the citation format adopted by the Canadian Journal of Animal Science: http://www.aic.ca/journals/cjas_instructions.cfm

Make sure you cite only literature that is highly relevant and avoid multiple citations on the same point.

Check each reference with the original article and refer to it in the text by the author and date.

Examples of correct citations:²

Maes et al. (2004) reported a negative association between backfat levels at the end of gestation and percentage of stillborn piglets, and McKay (1993) showed that sows selected for reduced backfat thickness wean fewer piglets per litter.

...the amount of adipose tissue at first service is crucial as it determines reproductive success (total born per litter and number of piglets born alive) for the first three parities (Tummaruk et al., 2007).

Similarly, Zak et al. (1997) reported longer WEIs for sows that had increased catabolism prior to weaning.

List multiple references in the text in chronological order. Use “et al.” when there are more than two authors but give all authors in the reference list at the end of your assignment. Example of how references should be compiled at the end of your assignment (note bolding, spacing of initials, capitalization, and punctuation):

²Examples of citations are taken from:

Houde, A. A., Méthot, S., Murphy, B. D., Bordignon, V. and Palin, M. F. 2010. Relationships between backfat thickness and reproductive efficiency of sows: A two-year trial involving two commercial herds fixing backfat thickness at breeding. *Can. J. Anim. Sci.* 90: 429-436.

Journal article:

Wade, C.M. J.W. Wilton, and Miller, S.P. 2001. Determination of breeding strategies for beef cattle bull breeders selling bulls into two competing markets on a non-linear price grid. *Can. J. Anim. Sci.* 81: 169-177.

Book chapter:

Bourdon, R.M. 2000. Understanding animal breeding Pages 21–55 Upper Saddle River, NJ : Prentice Hall,

Web site:

Saskatchewan Pork International. 2003. Mitchell’s Gourmet Foods, Inc., Hog Settlement Grid. [Online] Available: <http://www.spimg.ca/grid-mgf.htm>. [2006 Mar. 21].

Assignment Descriptions

The following assignments must be completed:

- 1) **Fact sheet:** Individual students will be required to prepare a fact sheet about a specific disease. The fact sheet will be related to the poster presentation. As such it should be summary of some aspect of the poster in a fact sheet format.
- 2) **Poster project:** The Poster project is the main student project that will be prepared by a small group of no more than three people. The poster may tackle a specific welfare issue that has several components. Each student would be responsible for research on a specific aspect/ component. These would then be put together in a logical manner in a poster. The student can then use the information they collected during their researched to develop their own fact sheet. Each individual will receive the same mark unless a strong case can be made to the contrary. The poster presentations will be a group effort, but the fact sheet is an individual assignment.

A reference list using the style shown on the previous page must be part of both the poster and fact sheet. References must be relevant to the topic with a minimum of 3-5 primary source peer reviewed scientific papers. Maximum must be 10 total references including credible websites, extension articles, lay press and commercial science based information that complements the primary sources.

Assignment Due Dates

February 27, 2018	Fact sheet
March 15, 2018	Poster Presentation

Assignment Extension and Late Submission Policy

Late Assignments

Students should hand in assignments on time. Otherwise late assignments will not be accepted without an acceptable explanation. 'Acceptable' explanation is anything unforeseen that would prevent you to complete the assignment on time. Proof of the said 'unforeseen circumstance' will be required.

Missed Assignments

Assignments which are not submitted will be given a score of zero, and that zero score will be used to calculate the overall average for assignments.