



**University
of Manitoba**

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

**ANSC 2500 Animal Production
Syllabus**

COURSE DETAILS

Course Title & Number: ANSC 2500 Animal Production

Number of Credit Hours: 3

Class Times & Days of Week: 8:30 Tuesday and Thursday

Labs: Tue, Wed, Thurs, Fri 2:30pm

Pre-Requisites: AGRI 1510 Production, Distribution and Utilization of
Agricultural Products

Instructor Contact Information

Instructor(s) Name:	Dr. Emma McGeough
Preferred Form of Address	Emma or Dr. McGeough
Office Location:	225 Animal Science Building
Office Phone No.	Phone: 204 474-8056. I am accessible at this number during regular weekday workhours.
Email	emma.mcgeough@umanitoba.ca
Communication	All email communication must conform to the Communicating with Students university policy. (Please familiarize yourself with the policy). 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.
Office Hours or Availability:	Virtual meetings can be set up by appointment. Available online for questions after class each day from end of class until 10:15am

Course Description

Built on concepts introduced in AGRI 1500 and AGRI 1510, by elaborating on the basic essentials of animal production.

Animal production plays an important role in Canadian agricultural production by supplying a means to efficiently move primary biomass production to market in a highly palatable form, high in protein, as well as providing fibre, leather, pharmaceuticals and other animal by-products. Increased production efficiency, development of new animal products or animal by-product opportunities, and sustainable directions will be needed to ensure competitive animal production for the coming years. This course will describe current production and production practices as well as discuss some of the future opportunities that may occur in animal production.

General Course Information

This course is used to give non-animal science majors a broad perspective of the major animal industries in Canada and it focuses on general biological factors that influence animal production. It is also an integral component of the animal systems program and is a pre-requisite to more advanced animal production courses especially for students without an agricultural background.

Course Goals

This course provides animal systems students with the foundation to succeed in advanced animal science courses. It also gives a broad perspective on the major animal agriculture industries in Canada with an emphasis on the biology of growth, reproduction and nutrition that is designed to be comprehensible to non-animal systems students.

Intended Learning Outcomes

At the end of the course, students will:

Develop a basic understanding of the main livestock species farmed in Canada

Be able to identify the main breeds of livestock that are commonly used in Canada

Describe basic management techniques for all species of livestock discussed

Describe contributions of livestock animals to the human population and national economy

Using Copyrighted Material

Please respect copyright. Copyrighted content is used in this course. The Course Instructor holds copyright over the course materials, presentations and lectures, which form part of this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission. The content used is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including original creations by the instructor, 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, or App, 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.

THIS CONTENTS OF THIS DOCUMENT ARE SUBJECT TO CHANGE AND MUST BE CONSIDERED A FAIR DRAFT

Textbook, Readings, Materials

There is no required textbook for the course. However, the following textbooks on animal production will help non animal science students to better understand some of the concepts.

- a) **Thomas G. Field and Robert E. Taylor. 2016. Scientific Farm Animal Production 11th Edition**
Pearson Prentice Hall (Sciences and Technology Library Fifth Floor SF 61 T39)
- b) John R. Campbell, Douglas M. Kenealy and Karen L. Campbell. 2003. *Animal Sciences: The Biology, Care, and Production of Domestic Animals*. 4th Edition. Waveland Press, Inc.

Course Technology

Downloaded course material from UM Learn must not be used for any other purpose than for the participant's private study and research.

Students should refrain from use of cell phones or any behavior that may be distracting to other students.

Course material will be posted on UM Learn under ANSC 2500 A01 (general information and lectures) and under the respective lab sections.

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 myself and you as a student must comply with the electronic communication with student policy

([http://umanitoba.ca/admin/governance/governing_documents/community/electronic communication with students policy.html](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

Students are expected to attend class regularly, read assigned materials in a timely manner, participate in discussion and complete all assignments and examinations with academic integrity and honesty. Students are encouraged to ask questions for clarification and seek assistance from the instructor if they require additional explanations or resources. In addition, students are expected to conduct themselves in a manner that is respectful of the learning environment, other students and instructor/TAs.

Expectations: You Can Expect Me To

Be respectful of your opinions, questions and response to questions.

Make every reasonable effort to answer your questions,

Mark your tests in a fair, equitable and prompt fashion.

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 copying/pasting from notes in online tests. 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, p. 29 in the University of Manitoba Undergraduate Calendar.

For individual assignments, students may cooperate and discuss the assignment; however, each student must hand in their own assignment, written in their own words. Duplicate assignments (either whole or in part) will be considered acts of academic dishonesty and will be subject to disciplinary action according to University policy.

For group assignments, peer evaluation may be used for some assignments. Part of the process of developing good group dynamics is the ability of group members to decide if all members are contributing effectively to group activities. As a result, a peer evaluation mark for each group will represent the average points received on the evaluation.

To do this rating, each student will rank all other students in their group. They will give a rating between 0 and 10. Ten would mean that they feel the other student contributed fully and should get the full mark assigned to the group, while marks below ten would indicate. When making this evaluation you should consider all aspects of group interaction including being on time, quality and quantity of ideas contributed, quality and quantity of work and ability to keep the group cohesive to achieve the group objective.

The mark assigned to each group member will reflect a combination of the group mark and peer evaluation

Use of Third Party Detection and Submission Tools

Electronic detection tools such as Respondus Lockdown, Monitor or Webex may be used as proctoring tools to detect plagiarism or cheating. It is the student's responsibility to ensure they have computer with camera to meet these requirements.

Important dates

For a complete list of important dates, please see 'Important Dates and Deadlines' under Registrar's Office (Student Affairs) on the university website: <http://umanitoba.ca/student/records/deadlines/>

General Dates

- a) Last Course Drop Date: September 22
- b) Last Course Add Date: September 23
- c) Fees Payment Deadline: October 6
- d) Thanksgiving Day (No classes): October 12
- e) Remembrance Day (No classes): November 11
- f) Midterm Break (No classes): November 9 – 13
- g) Voluntary withdrawal deadline: November 23
- h) Last Day of classes: December 11

Instructional Methods

A combination of instructional methods will be used in this course. Class lectures will be delivered via pre-recorded powerpoint presentations or live lectures where applicable. Guest speakers will also be invited to give lectures, enhancing the applicability of the information given.

Lecture notes will be posted to UM Learn shortly before class each day (either pre-recorded presentations or slides only for live) and will be available to view/download for 1 week. At the end of each class I will stay online from 9:45 – 10:15am to answer any questions.

Laboratory sessions will be used for practical instruction on a variety of topics and delivered virtually. Students must attend their respective lab day. A combination of pre-recorded and live material will be utilized in labs. Instructions on assignments will be distributed during lab periods each week.

Course Evaluation Methods

There will be a mini quiz, two term tests, and a final exam.

Due Date:	Assessment Tool	Value of Final Grade
September 24	Mini-quiz	5%
October 15: 8:30	Term Test 1	20%
November 19: 8:30	Term Test 2	20%
Date to be determined	Final Exam	20%
TBA	Lab assignments	35%

Test Descriptions

All quizzes/tests/final are closed book. No open book permitted. E-proctoring software may be utilized to ensure academic integrity.

- Mini-quiz:
 - September 24. Available from 7am-7pm through UM Learn
 - Multiple choice questions.
 - Examinable lectures: Sept 15, 17, 22
 - 10 mins

- Mid-Term tests:
 - Test 1: October 15. 8:30am
 - Test 2: November 19. 8:30am
 - Final: TBD
 - Multiple choice and short answer
 - Test 1: examinable lectures: Sept 15 – Oct 13
 - Test 2: examinable lectures: Oct 20 – Nov 17
 - Final: examinable lectures: Nov 24 – Dec 10

Missed tests

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 options of re-scheduling 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). 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.

Late Assignments: Assignments must be submitted by the end of the day (4:30pm) on the date that it is due. There will be a 10% deduction for every 24-hour period the assignment is late.

Assignment Grading Times

Generally, your test and other assignments will be marked and returned to you within one week. However, the turnaround time depends on the marker/grader. Quiz/test marks will be available on UM Learn. Additionally, students have one week following the return of an assignment or test in which to have the marks amended.

Grading

The grade will be evaluated through a combination of examinations and assignments.

Letter Grade	Percentage out of 100	Final Grade Point
A+	92-100	4.5
A	85-91.9	4.0
B+	78-84.9	3.5
B	70-77.9	3.0
C+	62-69.9	2.5
C	55-61.9	2.0
D	50-54.9	1.0
F	Less than 50	0

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.

Date	Class Content	Laboratory schedule	Evaluation
Sept 10	Course syllabus and remote learning instructions		
Sept 15	Overview of the Livestock Industry in Canada	Lab intro	No
Sept 17	Anatomy of the Reproductive System of Farm Animals		
Sept 22	Reproduction in Farm Animals	Reproductive system	Yes
Sept 24	Lactation		

Sept 24	Mini quiz (5%)		
Sept 29	Nutrients and Their Functions	Feed Identification	Yes
Oct 1	Nutrients and Their Functions		
Oct 6	Digestion and Absorption of Feed	GIT & Feed processing	Yes
Oct 8	Providing Nutrients for Body Functions		
Oct 13	Egg Production	Egg lab	No
Oct 15	Test 1 (20%)		
Oct 20	Growth and Development	No lab	
Oct 22	Growth and Development		
Oct 27	Adaptation to the Environment	Carcass grading	Yes
Oct 29	Adaptation to the Environment		
Nov 3	Beef Industry	Beef Industry	No
Nov 5	Feed Manufacture		
Nov 9-13	Midterm break	No classes	
Nov 17	Feeding Ruminant and Monogastric Species	Diet Formulation	No
Nov 19	Test 2 (20%)		
Nov 24	Nutritional Management of Dairy Cows	Dairy Lab	Yes
Nov 26	Animal welfare		
Dec 1	Animal welfare	Presentations	Yes
Dec 3	Waste From Animal Production		
Dec 8	Waste From Animal Production	No lab	
Dec 10	Aquaculture		

Blue font denotes a lab assignment.

Schedule "A" – Policies and Resources for Students

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 website:

<http://umanitoba.ca/student/saa/accessibility/>

520 University Centre

204 474 7423

Student_accessibility@umanitoba.ca

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 or by 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>

Notice Regarding 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 to 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/governing_documents/community/235.html

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