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Syllabus

Domesticated Animal Behaviour

ANSC 4510

(Winter 2022)



Faculty of Agricultural and Food Sciences

COURSE DETAILS				
Course Title & Number: ANSC 4510 - Domesticated Animal Behaviour				
Number of Credit Hours	3.0			
Pre-Requisites:	Prerequisite: ANSC 2520 or consent of the instructor.			
	Instructor Contact Information			
Instructor(s) Name & Dr. Meagan King				
Preferred Form of Address:	Please call me Meagan!			
Office Hours or Availability:	I'm happy to answer questions or chat before and after class. If you			
	would like more time or some privacy, please contact me via email			
	to arrange a meeting outside of class.			
Office Phone No.	N/A at the moment			
Email: Meagan.King@umanitoba.ca				
	Please write me at least semi-professional emails (i.e. Hello			
	Meagan or Dr. King, sign off with your name).			
	If you email me, <u>I will try my best to reply within 48h</u> .			
	I may respond to emails at strange times if I am working outside of			
	business hours, but I do not expect you to reply at that time.			
Contact:	It is best to contact me through email!			

COURSE DESCRIPTION

U of M Course Calendar Description

An awareness and understanding of normal behaviors of animals will be emphasized. Relationships between behavior, welfare and management will be explored. Emphasis will be on farmed animals but companion animals, wild animals and laboratory species will also be discussed.

General Course Description

This course will be based on a combination of lectures, case studies, discussions, and labs where students will learn about the theory and practice of studying and managing animal behaviour. Students will gain practical skills and knowledge regarding animal handling, animal welfare, underrepresented perspectives, and behavioural data collection. At the end of each class, there will be a short review period where we will assess students' understanding of lecture content and the most important/interesting things learned that day.

Course Goals

My goal is for you to develop a broad base of knowledge and skills pertaining to animal behaviour that you can apply throughout your undergraduate studies and beyond. I also aim to help develop your soft skills, such as presentation style and confidence, scientific communication and extension to non-academic

audiences, and respectful and inclusive discussion techniques. Important skills to refine will include critical thinking, improving sustainability, society, ethics, and equity, and self-reflection throughout the course. Dr. King and students will practice adapting and incorporating feedback to build resiliency, and will practice respecting others values, opinions, backgrounds while incorporating other perspectives to build knowledge in multicultural and multidisciplinary teams. These skills will help us better understand and solve problems at local, national and global scale. My goal is to build confidence, accountability, leadership, team work, and management of time, conflict, stress, and risk. We will practice communicating effectively, based on the audience, mode of communication, level, type of information, demonstrating respect, social and emotional intelligence and empathy.

Course Learning Objectives

Upon completion of this course, students should:

- Understand the most common framework of thinking about animal behaviour, 'Tinbergen's Four Questions
- Understand the difference between learning and motivation
- Understand the process and effects of domestication on animal morphology and behaviour
- Be able to use animal behaviour in various scenarios to identify which health or behavioural issue animals are experiencing
- Understand the theory and practice of studying animal behaviour
- Understand how aspects of the various Codes of Practices for farm animals are based on evidence regarding animal physiology, welfare, health, behaviour, and/or production
- Practice seeing situations from other points of view
- Practice handling hens and dairy cows using stress-free handling techniques
- Students will also learn first-hand about the advantages and disadvantages of live behaviour observations and video recordings.
- Students will then learn to format and analyze their own data to determine the effect of housing and enrichment on bird behaviour.
- Present their research findings to the class

COURSE MATERIALS AND TECHNOLOGY

There is no required textbook for this course. All required and supplemental readings will be available online through UM Learn or can be accessed online through the library.

EXPECTATIONS AND POLICIES

I EXPECT YOU TO:

- Try your best to attend class during synchronous lectures and actively participate in learning activities. Classes will be held every Monday, Wednesday, Friday from 1:30 to 2:20 pm. Labs are held Wednesdays from 2:30 to 5:15pm.
- Treat me and your classmates with respect and compassion.
- Regularly access UM Learn site and U of Manitoba student e-mail to access course information.
- Seek clarification from Instructor regarding the contents of this course outline if required.

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- Be aware of and comply with University of Manitoba Policies and Procedures.
- Listen attentively and do not disturb others during class.
- Refrain from using cell phones and other communication devices during class.
- Use professional, clear communication when e-mailing instructors and classmates.
- Serve as a good ambassador for the Animal Science program and the Agricultural Community.

YOU CAN EXPECT ME TO:

- Treat you with respect and compassion.
- Be available and supportive outside of class to discuss course content or how to manage other factors affecting your academic performance.
- Provide feedback within 2-3 weeks of submitting your assignments.
- Reply to your emails within 48 h.

Communication Protocols:

You are required to obtain and use your University of Manitoba email account for all communication between yourself and the university. All communication must comply with the Electronic Communication with Student Policy:

http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication with_students_policy.html

Student Accessibility Services:

The University of Manitoba is committed to providing an accessible academic community. <u>Students</u> <u>Accessibility Services (SAS)</u> offers 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 520 University Centre Phone: (204) 474-7423 Email: <u>Student accessibility@umanitoba.ca</u>

COURSE 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 <u>Section 2.8 of ROASS</u>.

Pink boxes are mandatory/marked in class assignments or exams.

Orange boxes are holidays.

Blue boxes are mandatory/marked online labs/tutorials/review sessions which students should actively participate in and, in some cases, prepare for. Details will be provided in advance. See below.

Green boxes are mandatory labs that will be voluntary to attend in person. Those who do not attend in-person will be given access to videos and data to complete their assignments.

Date	Class Topic	Lab Topic	
24-Jan	Course introduction & Motivation		
26-Jan	Learning	Case study - The Kicha Kronicles Part 1	
28-Jan	Causation (mechanisms, physiology)	·	
31-Jan	Phylogeny (evolution, domestication)		
02-Feb	Ontogeny (development)	Case study - The Kicha Kronicles Part 2	
04-Feb	Function (survival value)		
07-Feb	Courtship/sexual behaviour		
09-Feb	Maternal/care-seeking behaviour	Case study - Bailey's "Bad" Behaviour	
11-Feb	Casual Conversation with Valli Fraser-Celin re: R+ training		
14-Feb	Feeding/foraging/antipredator behaviour		
16-Feb	Pain/sickness behaviour	Case study - Cow Comfort Catastrophe	
18-Feb	Social/agonistic behaviour		
Feb 21-25		inter Term break	
28-Feb	Abnormal behaviour		
02-Mar	Review sessio	n for midterm	
04-Mar	Midterm (during class)		
07-Mar	Behaviour & welfare		
09-Mar	Codes of Practice	Work on Codes of Practice Assignment	
11-Mar	Work on debate - Meagan maybe away**		
14-Mar	Ethology - in theory		
16-Mar	Ethology - in practice/prep for lab	Hen lab	
18-Mar	Work on debate		
21-Mar	Animal welfare & behaviour debate		
23-Mar	Prep for hen lab	Hen lab	
25-Mar	Indigenous perspectives - livestock conflict		
28-Mar	Indigenous perspectives - Rez dogs + Turner/Thorpe?		
30-Mar	Work on hen project	Hen lab	
01-Apr	Work on hen project		
04-Apr	Present hen project		
06-Apr	Glenlea dairy cow behaviour lab		
08-Apr	Guest Lecture: human-cattle interactions (Maria Ceballos)		
11-Apr	Guest Lecture: human-cat/dog interactions (Carly Moody & Anastasia Stellato)		
13-Apr	Work on d	airy project	
15-Apr	Good Friday!		
18-Apr	Present dairy project		
20-Apr	Review session	n for final exam	
22-Apr	No class - spend your time studying!		
25-Apr	Final exam (during class)		

Voluntary Withdrawal

If you drop the class before Feb 4, 2022, you will receive a 100% refund. Therefore, the last day to drop a class is Feb 4, 2022. The Voluntary Withdrawal deadline is April 25, 2022. If you withdraw from the course after April 25, 2022, there will be no refund. Note that withdrawn courses will be recorded on your official transcript. Please contact me ahead of the withdrawal date if you would like to discuss your progress and strategies for improvement. Refer to the Registrar's Office web page for more information. https://umanitoba.ca/registrar/important-dates-deadlines

COURSE ASSESSMENT

1) March 4 Midterm	March 4	15% of final grade
 Open book exam of material cover 		

We will have a review class on March 2, spanning 3 hours (class and lab time)

.) Co	des of Practice Assignment (Warch 9 lab)	Iviarch 16	5% of final gi
-	Review National Farm Animal Care Counc	cil (NFACC) Code of Praction	ce Requirements,
	Recommendations, and Scientists' Comm	ittee Reports for your ass	signed species

Select 3 animal behaviour-related requirements/recommendations and provide a basic description of mechanisms (physical, physiological, or psycho-social) linking that management, housing, or handling requirement/recommendation to animal behaviour and implications for animal welfare, health, productivity, or product quality (3 pages, double spaced, plus references)

3) Animal behaviour & welfare debat	e March 21	10% of final grade
 Debate will cover a highly con- 	tentious issue in the world of animal	behaviour and students will
have to defend a position using science and compassion		
 Will have class time on March 	 Will have class time on March 11 to work on debate with partner 	
 A rubric will be provided 		

Perhaps we can debate animal protein choices and how they may be related to socioeconomic status or religion and how to respect those choices and infuse science into them?

4) Present hen project	April 4	10% of final grade
 Students will analyze what effect addition 	tional environmental enrich	ment (toys, hanging
vegetables, extra dust baths) has on fe the free-run fertile pen	eeding, preening, and social	pecking behaviours of birds in

- Presentations will be given in pairs
- A rubric will be provided

5) Present dairy project

Students will learn to monitor cow behaviour using live observations as well as precision technology (such as their rumination/activity collars). Students will then learn to format their own manually collected data as well as data collected by collars and the milking robot. They will then analyze these data to determine the differences in rumination, activity, and milk yield between primiparous and multiparous cows, and between healthy cows and those with naturally occurring illness near the time of our visit (information we will get from treatment records).

10% of final grade

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April 4

April 13

10% of final grade

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- Presentations will be given independently
- A rubric will be provided

6) Final exam (during class time) April 25 20% of final grade

- Open book exam but will be heavy on the application of your knowledge acquired
- Mostly material from March 7 onwards, with some concepts from the first half of the course
- We will have a review class on April 20, spanning 3 hours (class and lab time)

7)	Lab attendance/participation (6 labs x 5% each)	Entire term	30% of final grade

- For the class attendance/participation portion, students will be evaluated based on their attendance and the quality and quantity of their contributions to class discussions.
- This includes case studies and review sessions.
- Jan 26, Feb 2, 9, 16: Animal behaviour case studies
- **March 2:** Review session for midterm students will help prepare for and participate in this session! Details will be provided in advance.
- **April 20:** Review session for final exam students will help prepare for and participate in this session! Details will be provided in advance.

Voluntary labs include:

- March 16, 23, 30: Covid-permitting, students will spend time with the laying hens in the poultry facility on campus. March 16: We will visually monitor hen behaviour in the 3 different housing systems (free run, large vs. small enriched cages and conventional cages). March 23 and 30: Students will observe what effect additional environmental enrichment (toys, hanging vegetables, extra dust baths) has on feeding, preening, and social pecking behaviours of birds in the free-run fertile pen (students will be involved in deciding which behaviours to record and how, and will help set up enrichments and cameras on March 23)
- April 6: Covid-permitting, students will travel to the Glenlea dairy barn for 1 lab session (April 6 from 1:30-5:20pm because the lab is right after their class time) where they will learn about the key behaviours of dairy cows. Students will also get to practice some basic cattle handling techniques (flight zone and point of balance) by walking inside the pen with cows with direct supervision. We will calmly walk up to 10 cows around their pen and guide them into a stall, where we will use gentle physical restraint (no halter, just leaning on the cow to keep her in the stall) while a student brushes the cow (if a cow resists or shows signs of stress or discomfort, we will choose a different, hopefully more willing, cow). Cows will be held in the stall by 2 people (King or facility personnel plus one student), while a 3rd (Student) brushes the cow. Students will learn to monitor cow behaviour using live observations as well as precision technology (such as their rumination/activity collars).

Letter Grade	Percentage	Final Grade Point
A+	92-100	4.5
А	85-91.9	4.0
B+	78-84.9	3.5
В	70-77.9	3.0

A rubric and further information will be provided to students in preparation for assignments.

C+	63-69.9	2.5
С	56-62.9	2.0
D	50-55.9	1.0
F	<50	0

Referencing Style

Whichever academic journal you read and cite most will be the referencing style you should use. Be consistent and be accurate! Meagan is meticulous!!!!

Check out the "Instructions for Authors" section of journal websites for details.

Assignment Feedback

Within 2 to 3 weeks of submitting your assignments or giving presentations, Meagan King will provide formative (i.e., comments) and summative (i.e., grade) feedback through UM Learn.

Assignment Extension and Late Submission Policy

Written assignments are to be submitted through UM Learn on the due date by 10 pm. UM Learn automatically date-stamps assignments. There will be a hard cut off at that point, after which, there will be a late penalty of 5% per day (including weekend days). Presentations are to be given on the date specified during class time. Late presentations will be docked 5% each day they are delayed. Assignments will not be accepted beyond 3 weeks after the due date.

You may experience challenging circumstances for which extensions may be permitted. Please contact Meagan King a minimum of 2 weeks prior to due dates to explain your situation and she will try to accommodate. If you have a research trial or related activities which prohibit your attendance for a small number of classes, she will help work around this, in discussion with your supervisor.

Try your best to contact me BEFORE your stress/schedule seems unmanageable. I am more than happy to help direct you to resources that can help you survive and thrive as a student!

Academic Integrity

Each student in this course is expected to compete their coursework and programs of study with integrity by making a commitment to the six fundamental values of honesty, trust, fairness, respect, responsibility, and courage. <u>http://umanitoba.ca/student-supports/academic-supports/academic-integrity</u>

Academic integrity looks like referencing the work of others that you have used and completing your assignments independently unless otherwise specified.

If you are encouraged to work in a team, ensure that your project is completed with integrity. You must also do your own work during exams. Plagiarism, duplicate submission, cheating on quizzes, tests, and exams, inappropriate collaboration, academic fraud, and personation are in violation of the Student Discipline Bylaw and will lead to the serious <u>disciplinary action</u>. Visit the <u>Academic Calendar</u>, <u>Student Advocacy</u>, and <u>Academic Integrity</u> web pages for more information and support.

Specific course requirements for academic integrity for individual and group work include:

- I. All work should be completed independently unless otherwise specified,
- II. Students will be made aware of any specific instructions concerning study groups and individual assignments;
- III. Sharing of notes and other materials, such as assignment and exam questions that were provided by the instructor is prohibited, unless otherwise stated. This means that you are not allowed to upload the instructor's intellectual property to a note-sharing or tutoring website without explicit permission.

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.

Note: Course material is copyrighted by Meagan King, 2021. No audio or video recording of this material, lectures, or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission of Meagan King. Course materials (both paper and digital) are for the participant's private study and research, and must not be shared without permission from Meagan King. Violation of these and other Academic Integrity principles, will lead to serious disciplinary action.

Copyright info:

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

LEARNER SUPPORT

Academic supports you may find helpful:

Writing and Learning Support

The Academic Learning Centre (ALC) offers writing and learning supports to help you throughout your academic program. These supports are offered online during the Covid-19 pandemic.

Make an appointment with an ALC 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. The ALC also has an English as an Additional Language (EAL) specialist available to work with students on improving their English-language academic writing skills.

Consult an ALC learning specialist or attend an academic skills workshop to improve your time management, learning strategies and test-taking strategies. Get support in select courses by making an appointment with an ALC content tutor. The ALC also offers peer-facilitated study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In SI study groups, students ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

In addition to one-to-one and group sessions, you can also find writing and study tip sheets and videos on the ALC website.

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

Contact the Academic Learning Centre by calling 204-480-1481 or emailing <u>academic_learning@umanitoba.ca</u>. Bannatyne students can contact the Bannatyne Student Services office at 204-272-3190.

University of Manitoba Libraries (UML)

Research begins at <u>UM Libraries</u>. Learn at the Libraries is a great place to start, with information for students on academic writing, how to search the library, evaluating resources, and writing citations. As the primary contact for all research needs, your <u>liaison librarian</u> can play a vital role when completing academic papers and assignments. Liaisons can answer questions about locating appropriate resources or managing citations, 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 online. When working remotely, students can also receive help online through <u>Ask Us!</u> chat. For further detail about the libraries' services and collections, <u>visit the Libraries' web site</u>. Regularly check our <u>COVID-19 Update</u> page for available library services and access to resources for Fall 2020

Mental & physical health supports you may find helpful:

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 UMSU University Centre or S211 Medical Services Building

(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.

http://umanitoba.ca/student/case-manager/index.html

520 UMSU University Centre

(204) 474-7423 (Student Support Intake Assistant)

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. <u>Note that due to fire</u> <u>displacement, UHS is unable to provide in-person medical care on the Fort Garry Campus until</u> <u>October, 2020</u>.

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

(204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness

Contact our Health and Wellness Educator if you are seeking information on health topics, including physical and mental health concerns, alcohol and substance use harms, or sexual violence. You can also access peer support from a *Healthy U* peer health educator.

Health and Wellness Educator

https://umanitoba.ca/student/health-wellness/welcome-about.html

britt.harvey@umanitoba.ca

469 UMSU University Centre

(204) 295-9032

Sexual Violence Resource Centre

Contact SVRC if you have experienced sexual violence or are seeking information about how to help somebody else. SVRC provides inclusive, survivor-centred, trauma-informed services, such as consultation, referrals, safety planning, and a range of on-site supports, including counselling by Klinic.

Sexual Violence Resource Centre

https://umanitoba.ca/student-supports/sexual-violence-support-and-education

svrc@umanitoba.ca

537 UMSU University Centre

(204) 474-6562 (Sexual Violence Intake and Triage Specialist)

Student Services at Bannatyne Campus

Contact SS@BC to access a full range of resources and supports for learners at the Rady Faculty of Health Sciences. Services are provided through a one-stop hub that includes a range of supports for personal and academic success, including counselling, mental health consultation, and spiritual care.

Student Services at Bannatyne Campus

https://umanitoba.ca/student-supports/student-services-bannatyne-campus

bcss@umanitoba.ca

S211 Medical Services Building

(204) 272-3190 (Intake and Triage Specialist)

Please check out the University and Unit policies, procedures, and supplemental information available on-line:

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 <u>Academic Calendar http://umanitoba.ca/student/records/academiccalendar.html</u> 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

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:

<u>http://umanitoba.ca/admin/governance/governing_documents/community/230.html</u> More information and resources can be found by reviewing the Sexual Assault site <u>http://umanitoba.ca/student/sexual-assault/</u>

For information about rights and responsibilities regarding **Intellectual Property** view the policy: <u>https://umanitoba.ca/admin/governance/governing_documents/community/235.html</u>

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 <u>http://umanitoba.ca/academic-advisors/</u>

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