



ANSC*4090 Applied Animal Behaviour and Welfare

Winter 2023

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 1.00 - January 11, 2023

1 Course Details

1.1 Calendar Description

Students will build upon their basic knowledge of animal behaviour and welfare for in-depth examination of how genetic selection, housing and management practices affect the behaviour, health and well-being of farmed and companion animals. Topics will include effects of domestication and artificial selection on behaviour and health traits, and how early experience affects adaptability, sexual and maternal behaviour. Emphasis is placed on the application of behavioural knowledge to the design of housing and management procedures that promote healthy, productive animals and good welfare.

Pre-Requisites: ANSC*3080, ANSC*3090

1.2 Course Description

Students will build upon their basic knowledge and master their understanding of how to use animal behaviour to answer questions and provide solutions about concerns of animal welfare. We will ask whether animals have 'behavioural needs' and if, how and when natural behaviour may be important for animals (or not) even when they have been domesticated for thousands of generations. We will examine how we use behavioural experiments to gauge animals' affective states which are key to answering questions about and assessing their welfare. We will explore how early life experiences can have life-long and profound effects on behaviour, health and welfare.

Students will do a deep dive on a specific welfare issue through a review of the literature (individual annotated bibliography) and will present their findings to the class through a group presentation.

Emphasis is placed on the application of behavioural knowledge to the design of housing and

management procedures that promote healthy, productive animals and good welfare.

1.3 Timetable

Tues and Thurs from 10:00 to 11:20

In-person delivery MACS (Macdonald Stewart Hall) Room 209

1.4 Final Exam

FINAL EXAM

Saturday 11:30AM - 01:30PM (2023/04/22)

Virtual

2 Instructional Support

2.1 Instructional Support Team

Instructor: Tina Widowski Professor
Email: ansc4090@uoguelph.ca
Office Hours: Tuesdays and Thursdays after class or by appointment

Please note: We have a designated email account for this course that the Instructor and TAs will be sharing. Please use only this email address to ensure a timely response to your message. If your email is specifically intended for one of us, please indicate the name of the person it is intended for in the subject line.

2.2 Teaching Assistants

Teaching Assistant (GTA): Rosie Whittle
Email: ansc4090@uoguelph.ca
Office Hours: Please email for appointment

Teaching Assistant (GTA): Pauline Kosmal
Email: ansc4090@uoguelph.ca
Office Hours: Please email for appointment

3 Learning Resources

RECOMMENDED TEXTS (some readings may be required)

The Ethology of Domestic Animals: An Introductory Text 3rd Edition, 2017, Edited by Per Jensen (only 2nd edition is available by e-book in the library)

Animal Welfare 3rd Edition, 2018 Edited by M.C. Appleby, I.A. Olssen, and F. Galindo (e-book is available in the library)

REQUIRED READINGS will be posted in CouseLink

3.1 Course Technology

1. CourseLink

This course is being offered using CourseLink (powered by D2L's Brightspace), the University of Guelph's online learning management system (LMS). By using this service, you agree to comply with the University of Guelph's Access and Privacy Guidelines. Please visit the D2L website to review the Brightspace privacy statement and Brightspace Learning Environment web accessibility standards.

<http://www.uoguelph.ca/web/privacy/> <https://www.d2l.com/legal/privacy/>

<https://www.d2l.com/accessibility/standards/>

Technical Support If you need any assistance with the software tools or the CourseLink website, contact CourseLink Support.

Email: courselink@uoguelph.ca Tel: 519-824-4120 ext. 56939 Toll-Free (CAN/USA): 1-866-275-1478 **Support Hours (Eastern Time):** Monday thru Friday: 8:30 am–8:30 pm Saturday: 10:00 am–4:00 pm Sunday: 12:00 pm–6:00 pm

2. Dropbox Submissions

Assignments should be submitted electronically via the online Dropbox tool. When submitting your assignments using the Dropbox tool, do not leave the page until your assignment has successfully uploaded. To verify that your submission was complete, you can view the submission history immediately after the upload to see which files uploaded successfully. The system will also email you a receipt. Save this email receipt as proof of submission. Be sure to keep a back-up copy of all of your assignments in the event that they are lost in transition. In order to avoid any last-minute computer problems, your instructor strongly recommends you save your assignments to a cloud-based file storage (e.g., OneDrive), or send to your email account, so that should something happen to your computer, the assignment could still be submitted on time or re-submitted. It is your responsibility to submit your assignments on time as specified on the Schedule. Be sure to check the technical requirements and make sure you have the proper computer, that you have a supported browser, and that you have reliable Internet access. Remember that technical difficulty is not an excuse not to turn in your assignment on time. Don't wait until the last minute as you may get behind in your work.

If, for some reason, you have a technical difficulty when submitting your assignment electronically, please contact your instructor or CourseLink Support.

<http://spaces.uoguelph.ca/ed/contact-us/>

3.1 Technical Skills

As part of your learning experience, you are expected to use a variety of technologies for assignments, lectures, teamwork, and meetings. In order to be successful in this course you will need to have the following technical skills:

Manage files and folders on your computer (e.g., save, name, copy, backup, rename, delete, and check properties);

Install software, security, and virus protection;

Use office applications (e.g., Word, PowerPoint, Excel, or similar) to create documents;

Be comfortable uploading and downloading saved files;

Communicate using email (e.g., create, receive, reply, print, send, download, and open attachments);

Navigate the CourseLink learning environment and use the essential tools, such as Dropbox, Quizzes, and Grades (the instructions for this are given in your course);

Access, navigate, and search the Internet using a web browser (e.g., Safari, Firefox, Internet Explorer); and

Perform online research using various search engines (e.g., Google Scholar) and library databases.

3.1 Remote Library Access

As a student, you have access to the University of Guelph's library collection, including both physical and electronic materials. For information on checking out or couriering physical library items, accessing electronic journals and returning items to the library, visit the library's website.

If you are studying off campus and would like to access the library's electronic resources, use the Off Campus Login and login using your Single Sign On credentials or using your last name and library barcode.

4 Learning Outcomes

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Understand and articulate the definition of applied ethology and how it can be a useful tool in managing animals and ensuring their well-being
 2. Demonstrate an understanding of animal welfare issues in relation to the management of animals
 3. Make appropriate connections between applied ethology and animal welfare and discuss the complexities of the topic in a balanced, scientifically supported manner
 4. Apply knowledge of physiology, behaviour, welfare, genetics and nutrition to improve animal wellness and performance
 5. Use appropriate terminology to describe in detail the scientific methods used to study animal behaviour and welfare
 6. Effectively communicate your knowledge and understanding of a given topic in a variety of forms (written, oral, exams, in-class quizzes (not graded), small and large group discussion)
 7. Find, assess, and correctly cite primary research (in the form of scientific articles, books, graphic data, etc) for a given topic
 8. Critically analyze scientific articles in the form of a summary review of the main points of the resource, explain how it relates to other cited references and how it integrates into the overall assigned topic
 9. Effectively collaborate in a group setting to accomplish a cohesive presentation on an assigned animal welfare topic
 10. Address the various viewpoints and opinions of group and classmates in a professional and respectful manner
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5 Teaching and Learning Activities

The course will consist of weekly lectures covering course content, discussions, and in-class presentations. Lecture schedule is subject to change.

5.1 Lecture

Tue, Jan 10

Topics:

Class 1- Course Introduction

Definitions and applications of applied ethology

Thu, Jan 12

Topics:

Class 2- Animal Welfare Science and Its Application

Definitions and frameworks, animal care and welfare guidelines and assessments

Tue, Jan 17

Topics:

Class 3- The Animals' World

Sensory perception and capacities of domesticated animals

Thu, Jan 19

Topics:

Class 4- Domestication and Genetic Selection

Process of domestication, and consequences of genetic selection for traits that humans desire

Tue, Jan 24

Topics:

Class 5- Domestication and Genetic Selection

Welfare implications

Thu, Jan 26

Topics:

Class 6- Behavioural Needs

Definitions, species differences, relationship to animal welfare

Tue, Jan 31

Topics:

Class 7- Understanding Animal Welfare

Behavioural methods for assessment of animal welfare

Thu, Feb 2

Topics:

Class 8 – Understanding Animal Welfare

Recognizing and measuring pain, fear and other affective states

Tue, Feb 7

Topics:

Class 9 – Effects of Early Life Experience: Pre-natal period

Thu, Feb 9

Topics:

Mid Term Exam

Tue, Feb 14

Topics:

Class 11- Effects of early experience - Post Natal Period

Thu, Feb 16

Topics:

Class 12- Maternal and Neonatal Behaviour

Control and Management of Nesting, Parturition, Bonding and Welfare Implications

Tue, Feb 21

Topics:

No Class- Winter Break

Thu, Feb 23

Topics:

No Class- Winter Break

Tue, Feb 28

Topics:

Class 13- Maternal and Neonatal Behaviour

Breaking bonds, artificial rearing, early weaning and welfare implications

Thu, Mar 2

Topics:

Class 14 – Sickness Behaviour

Supporting the welfare of animals that are ill

Tue, Mar 7

Topics:

Class 15- Group Presentations

Thu, Mar 9

Topics:

Class 16 – Group Presentations

Tue, Mar 14

Topics:

Class 17 – Group Presentations

Thu, Mar 16

Topics: Class 18 – Group Presentations

Tue, Mar 21

Topics: Class 19- Ingestive Behaviour I -

Control of Feeding, Drinking, Sucking

Thu, Mar 23

Topics: Class 20- Ingestive Behaviour 2-

Hunger, Thirst and Other Welfare Issues

Tue, Mar 28

Topics: Class 21- Social Behavior

Group size and composition and deviations from 'normal'

Thu, Mar 30

Topics: Class 22- Social Behaviour

How do we determine spatial needs of captive animals?

Mon, Apr 4

Topics: Class 23 – Human Animal Interactions

Humane Handling on Farms and Veterinary Clinics

Thu, Apr 6

Topics: Class 24 - Wrap and Review_2023

6 Assessments

6.1 Marking Schemes & Distributions

Assessment Type	Due Date	Contribution to Final Mark	Associated Learning Outcomes
Annotated Bibliography	Thursday, February 2nd	25%	2, 5, 6, 7, 8
Midterm Exam (on Courselink during the regular class period)	Thursday February 9th	25%	1-6
In-Class Group Presentations	March 7 through 16	20%	1-10
Final Exam	April 22 (Final Exam Week)	30%	1-6

6.2 Assessment Details

Annotated Bibliography (25%)**Due:** Thu, Feb 2, 11:59 PM, Submit Online through Dropbox on Courselink**Learning Outcome:** 2, 5, 6, 7, 8

Students will be assigned a current Animal Welfare topic to individually research and submit an Annotated Bibliography. The Annotated Bibliography will consist of 9-15 properly

cited scientific articles followed by a brief summary of each article's main points and connections to their Animal Welfare topic. The assignment will be no longer than 5-6 pages in length. A detailed rubric will be supplied at the time of assignment.

For this assignment, your instructor will be using Turnitin, integrated with the CourseLink Dropbox tool, to detect possible plagiarism, unauthorized collaboration or copying as part of the ongoing efforts to maintain academic integrity at the University of Guelph.

Unless previous arrangements are made with the instructor, late assignments will be penalized by 5% of the assignment grade each and every day the assignment is late.

Midterm Exam (25%)

Date: Thu, Feb 9, Synchronous virtual

Learning Outcome: 1, 2, 3, 4, 5, 6

The Midterm Exam will be offered remotely during the regular class meeting time using the Quiz function on CourseLink.

It will consist of a variety of question types, including but not limited to, Multiple Choice, Short Answer, Long Answer, and Graphic Data Interpretation. The Mid-term Exam will be considered 'open book' - you can use your notes.

Lockdown browser will not be used.

Animal Welfare Group Presentations (20%)

Date: Tue, Mar 7 - Thu, Mar 16, In-person

Learning Outcome: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

Groups of up to 5 students each will be assigned an Animal Welfare Topic to research and present as a group during 1 of 4 In-class presentation days. Presentations will be no longer than 10 minutes and will highlight current Animal Welfare topics. A detailed rubric will be supplied at the time of assignment.

PPT SLIDES FROM ALL GROUPS WILL BE DUE IN DROPBOX ON MARCH 7 BY 9AM

Final Exam (30%)

Date: Sat, Apr 22, 11:30 AM - 1:30 PM, Virtual

Learning Outcome: 1, 2, 3, 4, 5, 6

The Final Exam will be offered remotely on the Quiz function of CourseLink. It will consist of a variety of questions types, including but not limited to, Multiple Choice, Short Answer, Long Answer, and Graphic Data Interpretation. The Final Exam will be cumulative in regards to major themes taught throughout the course, with an emphasis on detailed material covered after the Midterm. The Final Exam will be considered 'open book' - you can use your notes.

Lockdown browser will not be used.

7 Course Statements

7.1 Netiquette Expectations

The course website is considered the classroom and the same protections, expectations, guidelines, and regulations used in face-to-face settings apply. Inappropriate behaviour will not be tolerated. Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor or fellow students;
- Using obscene or offensive language online
- Copying or presenting someone else's work as your own;
- Adapting information from the Internet without using proper citations or references;
- Buying or selling term papers or assignments;
- Posting or selling course materials to course notes websites;
- Having someone else complete your quiz or completing a quiz for/with another
- Stating false claims about lost quiz answers or other assignment submissions;
- Threatening or harassing a student or instructor online
- Discriminating against fellow students, instructors, and/or TAs;
- Using the course website to promote profit-driven products or services;
- Attempting to compromise the security or functionality of the learning management system; and
- Sharing your username and password
- Recording lectures without the permission of the instructor

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to make a booking at least 14 days in advance, and no later than November 1 (fall), March 1 (winter) or July 1 (summer). Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time.

For Guelph students, information can be found on the SAS website
<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website
<https://www.ridgetownc.com/services/accessibilityservices.cfm>

8.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community-faculty, staff, and students-to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct
<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

8.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars
<https://www.uoguelph.ca/academics/calendars>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g.. final exam or major assignment).

8.11 Covid-19 Safety Protocols

For information on current safety protocols, follow these links:

- <https://news.uoguelph.ca/return-to-campusess/how-u-of-g-is-preparing-for-your-safe-return/>
- <https://news.uoguelph.ca/return-to-campusess/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.
