



ANSC*4090 Applied Animal Behaviour

Winter 2020

Section(s): C01

Department of Animal Biosciences

Credit Weight: 0.50

Version 4.00 - January 10, 2020

1 Course Details

1.1 Calendar Description

This course deals with why domesticated animals behave as they do with reference to causation, function, ontogeny and phylogeny. Basic principles are illustrated by examples taken from all the common domesticated and captive species. Emphasis is placed on the application of behavioural knowledge to improve captive environments and animal production systems. Designing housing, facilities and management procedures to suit the behaviour of the animals in question is also covered.

Pre-Requisites: ANSC*3080

1.2 Course 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.

1.3 Timetable

LEC Tues, Thur

10:00AM - 11:20AM

ANNU, Room 156

FINAL EXAM Mon 02:30PM - 04:30PM (2020/04/06)

Room TBA

1.4 Final Exam

FINAL EXAM

Mon 02:30PM - 04:30PM (2020/04/06)

Room TBA

2 Instructional Support

2.1 Instructional Support Team

Instructor: Tina Widowski
Office: ANNU 246
Office Hours: Please don't email. I'm happy to meet with you during Office Hours on Tuesday and Thursday after class

Instructor: Teresa Casey-Trott
Email: tcasey@uoguelph.ca
Office Hours: Feel free to email. I do not have an office on campus but will be available to meet after my lectures

2.2 Teaching Assistants

Teaching Assistant: Claire Mindus
Email: cmindus@uoguelph.ca
Office: ANNU 106
Office Hours: Please email for appointment

3 Learning Resources

RECOMMENDED TEXTS (not required)

The Ethology of Domestic Animals: An Introductory Text 2nd Ed., by Per Jensen

Animal Welfare 3rd Edition, 2018 Edited by M.C. Appleby, I.A. Olssen, and F. Galindo

REQUIRED READINGS will be posted in CouseLink

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

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 7

Topics:	Course Introduction - Definition and Applications of Applied Ethology
	Widowski & Casey-Trott
Thu, Jan 9	
Topics:	Influence of Domestication and Genetic Selection on Behaviour and Welfare
	Casey-Trott
Tue, Jan 14	
Topics:	Influence of Domestication and Genetic Selection on Behaviour and Welfare (cont)
	Casey-Trott
Thu, Jan 16	
Topics:	Influence of Domestication and Genetic Selection on Behaviour and Welfare (cont)
	Casey-Trott
Tue, Jan 21	
Topics:	Behavioural Needs – Definition, species differences, and relationship with Animal Welfare
	Widowski
Thu, Jan 23	
Topics:	Understanding Animal Welfare – Behavioural methods for assessment
	Widowski
Tue, Jan 28	
Topics:	Influences of Early Experiences on Behaviour
	Casey-Trott
Thu, Jan 30	
Topics:	Influences of Early Experiences on Behaviour (cont)
	Casey-Trott
Tue, Feb 4	

Topics:	Influences of Early Experiences on Behaviour (cont)
	Casey-Trott
Thu, Feb 6	
Topics:	Sexual Behaviour – Development, Signalling, and Management
	Widowski
Tue, Feb 11	
Topics:	Sexual Behaviour – Development, Signalling, and Management (cont)
	Widowski
Thu, Feb 13	
Topics:	Midterm Exam (in-class)
	Widowski & Casey-Trott
Tue, Feb 18	
Topics:	NO CLASS - Reading Week
Thu, Feb 20	
Topics:	NO CLASS - Reading Week
Tue, Feb 25	
Topics:	Maternal and Neonatal Behaviour - endocrine control of nesting, peri-partum behaviour
	Widowski
Thu, Feb 27	
Topics:	Maternal and Neonatal Behaviour - maternal/offspring bonding and recognition
	Widowski
Tue, Mar 3	
Topics:	Maternal and Neonatal Behaviour - life without mum, artificial rearing and early weaning
	Casey-Trott

Thu, Mar 5

Topics: Class Presentations Day 1 (in-class)

Widowski & Casey-Trott

Tue, Mar 10

Topics: Class Presentations Day 2 (in-class)

Widowski & Casey-Trott

Thu, Mar 12

Topics: Class Presentations Day 3 (in-class)

Widowski & Casey-Trott

Tue, Mar 17

Topics: Human-Animal Relationships – Communication, Bonding, and Veterinary Interactions

Casey-Trott

Thu, Mar 19

Topics: Human-Animal Relationships – Communication, Bonding, and Veterinary Interactions (cont)

Casey-Trott

Tue, Mar 24

Topics: Ingestive Behaviour – Development, Species Differences, and Management

Widowski

Thu, Mar 26

Topics: Ingestive Behaviour – Development, Species Differences, and Management (cont)

Widowski

Tue, Mar 31

Topics: Social Behaviour: Territory Rules and Space Requirements

Widowski

Thu, Apr 2

Topics: **Social Behaviour: Territory Rules and Space Requirements (cont)**

Widowski

6 Assessments

6.1 Marking Schemes & Distributions

Assessment Type	Due Date	Contribution to Final Mark	Associated Learning Outcomes
Annotated Bibliography	Thursday, January 30th	20%	2, 5, 6, 7, 8
Midterm Exam (in-class)	Thursday February 13th	25%	1-6
In-Class Group Presentations	March 5 th , 10 th and 12th	20%	1-10
Final Exam	TBD (Final Exam Week)	35%	1-6

6.2 Assessment Details

Annotated Bibliography (20%)

Due: Thu, Jan 30, 10:00 AM, 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.

Midterm Exam (25%)

Date: Thu, Feb 13, In-class Exam

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

The Midterm Exam will consist of a variety of questions types, including but not limited to, Multiple Choice, Short Answer, Long Answer, and Graphic Data Interpretation.

Animal Welfare Group Presentations (20%)

Date: Thu, Mar 5 - Thu, Mar 12, In-class

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

Groups of 5 students each will be assigned an Animal Welfare Topic to research and

present as a group during 1 of 3 In-class presentation days. Presentations will be no longer than 10 minutes each group and will highlight current Animal Welfare topics as well as the pros/cons associated with certain management practices related to the Welfare topic. A detailed rubric will be supplied at the time of assignment.

Final Exam (35%)

Date: Mon, Apr 6 - Mon, Apr 20, Exact Date and Time TBD

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

The Final Exam 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.

7 University Statements

7.1 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.

7.2 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>

7.3 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>

7.4 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.

7.5 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 book their exams at least 7 days in advance and not later than the 40th Class Day.

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>

7.6 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>

7.7 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.

7.8 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>
