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## ANSC\*6440 - Advanced Critical Analysis in Applied Ethology

Fall 2023 Course Outline

Section: 01

Credits: 0.50

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### Land Acknowledgement: Guelph

The University of Guelph resides on the ancestral lands of the Attawandaron people and the treaty lands and territory of the Mississaugas of the Credit. We recognize the significance of the Dish with One Spoon Covenant to this land and offer respect to our Anishinaabe, Haudenosaunee and Métis neighbours. Today, this gathering place is home to many First Nations, Inuit, and Métis peoples and acknowledging them reminds us of our important connection to this land where we work and learn.

### Calendar Description

Students explore the process of scientific inquiry and experimental design within the context of applied ethology research. Discussions include the peer review process, critical analyses and applications of methods for applied animal behaviour research.

**Department(s):** Department of Animal Biosciences

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### Course Description

This course is designed for graduate students interested in deepening their understanding of the mechanisms of animal behaviour, broadening their knowledge of the scientific literature and developing the skills necessary to critically analyze and conduct research in applied ethology. Students will explore the process of scientific inquiry and experimental design within the context of applied ethology research. Discussions include the peer review process and applications of methods for applied animal behaviour research. It is helpful if students have already completed a general course in animal behaviour

### Lecture Schedule

Th 2:30pm-5:20pm in ANNU\*030 (9/7 to 12/15)

### Instructor Information

Tina Widowski

Professor

Email: [twidowsk@uoguelph.ca](mailto:twidowsk@uoguelph.ca)

Office: 246 ANNU

Fall 2023 Office Hours:

by appointment

Office Phone: ext 52408

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### Learning Resources

#### Required Class Resources

All lecture notes (slides), instructions for assignments, rubrics for assignments and required readings will be posted on the course website: Course link (Website) (<https://courselink.uoguelph.ca/>)

You will be expected to use scientific data bases (e.g. Google Scholar, PubMed, Web of Knowledge etc) to conduct your own literature searches. Make sure that you use only peer-reviewed journal articles for your written assignments.

#### Campus Resources

If you are concerned about any aspect of your academic program: Make an appointment with a Program Counsellor (<https://www.uoguelph.ca/uaic/programcounsellors/>) in your degree program. If you are struggling to succeed academically. There are numerous academic resources offered by the

Learning Commons (<https://www.lib.uoguelph.ca/using-library/spaces/learning-commons/>) including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills.

## Course Learning Outcomes

1. Develop an appreciation for the breadth and depth of approaches used in applied ethology research by studying a variety of assigned and self-selected readings
2. Articulate the research question(s) and hypotheses of a published experimental study and determine whether the methods used in the study are sound and sufficient for testing the hypotheses
3. Search scientific literature about a specific behaviour system integrate the current knowledge to develop a model for the system and identify gaps in our understanding of it
4. Develop your own specific research question(s) and be able to design an experiment to answer that question
5. Review and critically evaluate a journal article in the format of a real peer review
6. Become familiar and comfortable with orally presenting your ideas to a group of peers and writing a well-crafted literature review for your instructor

## Schedule of Topics and Assignments

Day:	Date:	Topic	Activities	Due:
Thu	9/7	Introduction and course organization Why do we study animal behaviour?	Lecture/Discussion	
Thu	9/14	Asking questions about behaviour	Lecture: Questions, objectives and hypotheses In-class exercise - Assignment 1	
Thu	9/21	Asking questions about behaviour	Student presentations and discussion	
Thu	9/28	Asking questions about behaviour	Student presentations and discussion	
Thu	10/5	Answering questions about behaviour	Lecture: Experimental design and data collection In-class exercise - Assignment 2	Assignment 1 Written Due in Dropbox
Thu	10/12	Answering questions about behaviour	Student group presentations and discussion	
Thu	10/19	Answering questions about behaviour	Student group presentations and discussion	
Thu	10/26	No Class This Week		Assignment 2 Written Due in Dropbox
Thu	11/2	The peer review process	Lecture: Peer review of manuscripts for publication Assignment 3 explained	
Thu	11/9	Conceptual models to explain behaviour	Lecture/Discussion Assignment 4 explained	Assignment 3 Due in Dropbox
Thu	11/16	Modeling a behavioural system	Student presentations and discussion	
Thu	11/23	Modeling a behavioural system	Student presentations and discussion	
Thu	11/30	Modeling a behavioural system	Student presentations and discussion	
Thu	12/7	No Class		
Thu	12/14	No Class		

## Assessment Breakdown

Description	Weighting (%)	Due Date
Assignment 1 - Asking Questions - oral	5%	Sept 21 & 29
Assignment 1 - Asking Questions - written	10%	October 5

Assignment 2 - Answering Questions - oral Group mark	5%	October 12 & 19
Assignment 2 - Answering Questions - written	15%	October 26
Assignment 3 - Peer review of journal article	15%	November 19
Assignment 4 - A Model for Behaviour - oral	10%	November 16, 23 & 30
Assignment 4 - A Model for Behaviour - written	30%	December 5
In class discussion and peer marking	10%	NA

## Last Day to Drop Course

The deadline to drop Fall 2023 courses without academic penalty is the last day of classes: December 01

After this deadline, a mark will be recorded, whether course work is completed or not (a zero is assigned for missed tests/assignments). This mark will show on the student's transcript and will be calculated into their average.

## Course Grading Policies

### Submission of Assignments

*Slides of oral presentations and written assignments are to be deposited in CourseLink Dropbox by 12 pm (noon) on the due dates provided*

### Late Assignment

*Please contact instructor at least 2 days in advance of due date if you are unable to complete an assignment*

## Standard Statements for Graduate Courses

### 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 discourages misconduct. 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.

The Academic Misconduct Policy (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/academic-misconduct/>) is outlined in the Graduate Calendar.

### 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.

Use of the SAS Exam Centre requires students to make a booking at least 10 business days in advance, and no later than the first business day in November, March or July as appropriate for the semester. Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time. For students at the Guelph campus, information can be found on the SAS website. (<https://www.uoguelph.ca/sas/>)

### Accommodation of Religious Obligations

If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements.

See the Academic calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/academic-accommodation-religious-obligations/>)

## **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.

## **Drop Date**

Courses that are one semester long must be dropped by the end of the last day of classes; two-semester courses must be dropped by the last day of classes in the second semester. The regulations and procedures for Dropping Courses (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/registration/>) dropping courses are available in the Graduate Calendar (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/registration/>).

## **Email Communication**

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

## **Health and Wellbeing**

The University of Guelph provides a wide range of health and wellbeing services at the Vaccarino Centre for Student Wellness (<https://wellness.uoguelph.ca/>). If you are concerned about your mental health and not sure where to start, connect with a Student Wellness Navigator (<https://wellness.uoguelph.ca/navigators/>) who can help develop a plan to manage and support your mental health or check out our mental wellbeing resources. (<https://wellness.uoguelph.ca/shine-this-year/>) The Student Wellness team are here to help and welcome the opportunity to connect with you.

## **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).

## **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.

## **Resources**

The Academic Calendars (<http://www.uoguelph.ca/registrar/calendars/?index>) are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

## **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. See the Graduate Calendar for information on regulations and procedures for Academic Consideration (<https://calendar.uoguelph.ca/graduate-calendar/general-regulations/grounds-academic-consideration/>).