

ANSC*3090 - Principles of Animal Behaviour

Fall 2024 Course Outline

Section: 01

Credits: 0.50

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

This course deals with why vertebrates behave as they do (with particular emphasis on mammals and birds), covering the causation of behaviour (including learning, motivation, affective states, hormones, sensory processing, and neurobiological mechanisms); function (both immediate/proximate and adaptive/ultimate); ontogeny (including socialization and sensitive periods); and phylogeny (especially the influences of taxonomic group and domestication). This framework is then applied to the following aspects of animal behaviour: foraging, anti-predator responses, sleep, sociality, mating, parental behaviour, play, dispersal and territoriality, animal intelligence, and behavioural pathologies.

Prerequisite(s): ANSC*1210 or ANSC*2210

Restriction(s): ANSC*4090. Restricted to students in BSCH.ABIO, BSAG.ANSC and BBRM.EQM.

Department(s): Department of Animal Biosciences

Course Description

This course covers the foundations of behavioural physiology, focusing on the structure and function of the nervous and endocrine systems and their interaction in guiding behaviour. It explores why domestic animals behave as they do, addressing the causation of behaviour (including learning, motivation, affective states, hormones, sensory processing, and neurobiological mechanisms), function, ontogeny, and phylogeny (especially the influences of taxonomic group and domestication). Further, the course deals with how we scientifically study animal behaviour through observations and experiments. This framework is then applied to the species-specific behaviour of farm animals, including behavioural problems of these animals kept in human-managed systems.

Lecture Schedule

TuTh 1pm-2:20pm in MACN*105 (9/5 to 12/13)

Instructor Information

Dr. Alexandra Harlander

Instructor

Email: ansc3090@uoguelph.ca

Office: ANNU247

Office Hours:

Office hours will be available by request only.

Please direct all course-related questions to the course email (ansc3090@uoguelph.ca). Questions that are sent to the instructor's personal email will not be answered.

Dr. Rob Jones

Course Coordinator

Email: ansc3090@uoguelph.ca

Emails will be answered within 72 hours. Questions that are sent to the course coordinator's personal email will not be answered.

Anna Nicklas

Teaching Assistant

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Steeley Ellis

Teaching Assistant

Email: ansc3090@uoguelph.ca**Madison Penney**

Teaching Assistant

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Teaching Assistant

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Learning Resources

Required Resources

Course Link (website) will be used to disseminate all course information, including lecture material, supplementary readings, grades, and any additional information regarding course content and proceedings (e.g. lecture schedules, due dates, course syllabus, etc.)

Course Resources

For students wanting to learn more about the course content, we recommend the following resources:

9780135455777 Carlson Physiology of Behavior, Physiology of Behavior (Perpetual)

9780135455630 Carlson Physiology of Behavior, Physiology of Behavior (180-Days)

Broom, D.M. and Fraser, A.F. 2008 or more recent. Domestic Animal Behaviour and Welfare (CABI).

Jensen, P. 2009 or more recent. The Ethology of Domesticated Animals (CABI).

Nielsen, B.L. 2020. Asking Animals: An Introduction to Animal Behaviour Testing. (CABI)

Andrews, K. 2020. The Animal Mind: An Introduction to the Philosophy of Animal Cognition (Routledge)

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.

Field Trip Fees

For those courses in the Department of Animal Biosciences that have a field trip component - an associated fee for each field trip in the amount of \$20 will apply. Further details on how these fees will be collected will be provided in class/on CourseLink; along with a waiver form that will need to be completed prior to the trip(s).

Library Course Reserve (Ares)

For this course, you will be required to access course reserve materials through the University of Guelph McLaughlin Library. To access these items, select **Ares** on the navbar in CourseLink. Note that you will need your Central Login ID and password in order to access items on reserve.

For further instructions on accessing reserve resources, visit How to Get Course Reserve Materials (<https://www.lib.uoguelph.ca/find/course-reserves-ares/>).

If at any point during the course you have difficulty accessing reserve materials, please contact the e-Learning Operations and Reserve Services staff at:

Tel: 519-824-4120 ext. 53621 | Email: libres2@uoguelph.ca | Location: McLaughlin Library, First Floor, University of Guelph

Course Learning Outcomes

1. Use new ethological vocabulary appropriately, and identify appropriate ethological methods for collecting different types of behavioural data (including analyzing and interpreting data).
2. Distinguish between causal, developmental, functional and phylogenetic explanations of behaviour and demonstrate how these complement each other.
3. Explain how physiology, genetics, and nutrition influence behaviour.

4. Explain concepts of motivation and learning and their roles in the control of behaviour.
5. Explain different types of behaviours (i.e., social, maternal, play, foraging) and species-specific behaviours of domestic animals species.

Schedule of Topics and Assignments

Day	Date	Topic	Activities	Due
Thu	9/5	Information pertaining to the course, teaching team, assessments and expectations.		
Tue	9/10	Physiology & Behaviour I		
Thu	9/12	Physiology & Behaviour II		
Tue	9/17	Physiology & Behaviour III		
Thu	9/19	Physiology & Behaviour IV		
Tue	9/24	Physiology & Behaviour V		
Thu	9/26	Physiology & Behaviour VI		
Tue	10/1	Physiology & Behaviour VII		
Thu	10/3	Physiology & Behaviour VIII		
Tue	10/8	Physiology & Behaviour IX		
Thu	10/10	Physiology & Behaviour X		
Tue	10/15	Fall Study Break		
Thu	10/17	Physiology & Behaviour XI		
Tue	10/22	Physiology & Behaviour XII		
Thu	10/24	Physiology & Behaviour XIII		
Tue	10/29	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems I		
Thu	10/31	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems II		
Tue	11/5	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems III		
Thu	11/7	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems IV		
Tue	11/12	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems V		
Thu	11/14	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems VI		
Tue	11/19	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems VII		
Thu	11/21	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems VIII		
Tue	11/26	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems IX		
Thu	11/28	Species-specific Behaviour of Domesticated Animals in Human-Managed Systems X		

Assessment Breakdown

Description	Weighting (%)	Due Date
Individual Assignment # 1; Learning Outcome: 1,3	20%	October 10

Individual Assignment # 2; Learning Outcome: 1, 2, 3, 4, 5	30%	October 24
Final Exam; Learning Outcome: 1, 2, 3, 4, 5	50%	See Webadvisor for the latest information

Final Exam

Date: Dec 9

Time: Mon 11:30am-1:30pm

Location: TBA *Please see Web Advisor closer to the date of scheduled final for location.*

To understand rules and regulations regarding Examinations students are encouraged to read Student's Responsibilities (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/examinations/>)

If the student is unable to meet the final exam requirements due to medical, psychological or compassionate circumstances they are encouraged to review Student's Responsibilities in the Academic Consideration, Appeals and Petitions (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>) section of the Academic Calendar.

Last Day to Drop Course

The final day to drop Fall 2024 courses without academic penalty is the last day of classes: November 29

After this date, 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

This course will use CourseLink. Assignments should be submitted electronically via the online CourseLink 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 recommend 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 CourseLink Support.

Late Assignment

Late assignments will be penalized by 20% of the assignment grade each and every day they are late. No late assignments are accepted after 5 days (unless proof of an emergency).

Course Standard Statements

Course Policies

Course Technology Requirements

CourseLink

This course will be 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/>

CourseLink System Requirements

You are responsible for ensuring that your computer system meets the necessary system requirements. Use the browser check tool to ensure your browser settings are compatible and up to date.

If you need any assistance with the CourseLink website, contact CourseLink Support. Email: courselink@uoguelph.ca

Tel: 519-824-4120 ext. 56939 Toll-Free (CAN/USA): 1-866-275-1478

Standard Statements for Undergraduate 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/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-misconduct/>) is outlined in the Undergraduate 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.

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 10 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 Accommodations of Religious Obligations (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/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

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 undergraduate students 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 the Undergraduate Calendar - Dropping Courses (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/dropping-courses/>).

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 Undergraduate Calendar for information on regulations and procedures for Academic Consideration. (<https://calendar.uoguelph.ca/undergraduate-calendar/undergraduate-degree-regulations-procedures/academic-consideration-appeals-petitions/>)