



COURSE OUTLINE

1. **Course:** ZOOL 567, Animal Behaviour - Fall 2021

Lecture 01: MWF 11:00 - 11:50 in ST 143

Instructor	Email	Phone	Office	Hours
Dr Mindi Summers	mindy.summers@ucalgary.ca	403 220-8761	BI 041	TBD, sign-up available on D2L

In Person Delivery Details:

Lecture: MWF 11:00-11:50 ST 143 [Note: lectures may switch to Zoom]

In-person learning: Based on an initial survey completed by students in August on preferences for online versus in-person learning, synchronous lectures are scheduled to be held in person.

In the event of switching to online delivery (if determined by university and provincial regulations, guidelines and recommendations), lectures will remain synchronous at the scheduled time and be available through Zoom. Please note: all course assignments and assessment will remain the same, whether lectures are delivered in-person or online.

Lecture attendance and missed lecture/synchronous activities policy

Lectures are designed so that you are engaging in both learning the content and developing transferrable skills in problem solving, communication, and teamwork. Many studies have shown the benefits of *active learning* and you are encouraged to attend and engage in the planned activities, including questions, discussions, problem-solving, guest lectures, peer review, and case studies. Lectures will be audio-recorded whenever possible, and the audio file posted with the lecture slides on D2L, but the real learning will take place through active engagement. The goal is that all in-person learning is high value to you and well worth attending!

If you are ill, or showing any symptoms of illness (particularly COVID-19), we ask that you do not attend lecture. I also understand that life events and personal circumstances may prevent you from attending in-person and/or synchronous lectures. Given the complex nature of fall term learning, I have created the following guidelines for missing synchronous activities in the course.

Synchronous lecture activities, case studies, discussions with reflection

To honour the complex circumstances around attendance, you will be demonstrating your engagement and mastery of the concepts and skills we cover in lecture through three reflective exercises. This means that in the case of an absence, you do not need to inform me or any other member of the instructional team. However, it remains your responsibility to engage in the material and develop the skills required to meet the level of the grade you are pursuing for the specifications. This can take many forms, such as meeting with me during student hours to review and discuss course material.

Synchronous peer review activities

We will be engaging in four synchronous peer review activities during lectures **Sept 24, Oct 8, Nov 5, & Nov 26** using the online platform Kritik. You must submit your material for review by midnight on the Thursday before or you will not be assigned peer reviewers by Kritik, and will not be able to complete the peer review assignment. If you are absent from lecture on one of those Fridays, you can still complete your review asynchronously until midnight. Assignments will be made available Friday morning and will require approximately 1 hour of work. If you are able to complete your review, you do not need to inform me or any other member of the instructional team of your absence. If your absence will prevent you from engaging in the peer review on the Friday, please contact me to discuss an alternative assignment. Notification of such an absence will need to be communicated to me within 48 hours of missing the review.

Synchronous team research proposal

During the last two weeks of the course, you will be working with your team to create a research proposal and elevator pitch. Synchronous engagement with your team during lecture will be required to complete this assignment (no time outside of lecture is required). If you will be missing any of these sessions, please communicate with your team as soon as possible to either find a way to still contribute, discuss a different allocation of marks for your contribution, or determine if you would rather complete the research pitch as an individual. In the event of an unexpected absence, you will need to notify the instructional team and your team within 48 hours of missing the session to make suitable alternative arrangements. If you decide to complete this assignment as an individual, please inform me as soon as possible and at least one week prior to the start of the project so that arrangements can be made for your team.

Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#). **Online Delivery Details:**

Some aspects of this course are being offered in real-time via scheduled meeting times. For those aspects you are required to be online at the same time.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor's permission.

Hybrid: The course will involve **3-hours of synchronous lecture** and **~6 hours of asynchronous work** per week.

Synchronous (at a scheduled time): MWF lectures will be synchronous from 11-11:50am with activities and expectations for participation and engagement. Optional workshops and help sessions will also be delivered synchronously.

Asynchronous (not delivered at a scheduled time): You will complete course assignments and a literature-based project asynchronously. Support and optional activities to enhance your learning in the course will also be available to complete asynchronously on D2L.

Blended: The course is timetabled to include both online and in-person learning.

In-person learning: Based on an initial survey completed by students in August on preferences for online versus in-person learning, synchronous lectures are scheduled to be held in person. The delivery of lectures may switch to online (through Zoom) based on what will create the best learning experience.

In the event of switching to online delivery, lectures will remain synchronous at the scheduled time and be available through Zoom. Please note: all course assignments and assessment will remain the same, whether lectures are delivered in-person or online.

Online learning: Assignments, reflections, and an independent literature review project will be completed online.

Both in-person and online: Help sessions, workshops, and individual meetings will be available both in-person and online through Zoom. Please see the link provided on D2L to sign-up for the session and chose the best modality (in-person or Zoom).

Course Site:

D2L: ZOOL 567 L01-(Fall 2021)-Animal Behaviour

D2L will have the most updated schedule, lecture slides, assignments, readings, and other support materials. You will also use D2L to complete the online concept modules and turn-in assignments for instructional team feedback.

Important items to locate on D2L:

Lecture outline slides. I recommend that you download and bring a copy of the lecture slides to class with you to annotate. Lecture slides are incomplete so that you can practice note-taking, drawing, and writing in class, and also so that you can add relevant information. Some images shown in class may not appear in the lecture outline slides due to copyright restrictions. When this occurs, a link to the image or video will be provided.

Online concept modules. At the end of each week, a D2L quiz will be posted that reviews and expands upon the material presented in lecture.

Assignments and marking schemes. Instructions and marking schemes are posted with all course assignments. Please be sure to read the instructions AND review how your assignments will be marked to ensure that you are meeting expectations and continually improving your work. Due dates for all assessments in this course are available on D2L.

ZOOL 567 Library Guide: <https://library.ucalgary.ca/guides/BIOL/zool567>

Subject librarian: Heather Ganshorn (Heather.Ganshorn@ucalgary.ca), Associate Librarian, Science & Engineering

Note: Students must use their U of C account for all course correspondence.

Course email policy

If possible, please bring forward questions and ideas in person during student hours or after lecture, or through posting your questions on the course to the course Q&A discussion board. Being able to ask you follow-up questions in real time helps us to make sure that we are answering your questions and providing helpful support.

We will send class emails and respond to individual emails and discussion board posts between 8:30am-4:30pm Monday-Friday. We will do our best to read and respond to emails within 24 hours Monday-Friday, and emails received during the weekend by the following Tuesday. If you do not receive a response within the time-frame, please follow-up in email or person (sometimes emails are lost in spam filters or mistakenly overlooked!).

2. Requisites:

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

Prerequisite(s):

Biology 313 and 3 units from Biology 371, Ecology 429, Zoology 375, 377, 401 or 477.

Antirequisite(s):

Credit for Zoology 567 and Marine Science 546 will not be allowed.

3. Grading:

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In this course, overall grades will be determined following the information outlined below.

In this course, you will earn grades based on **the requirements you choose to complete**, and you do not have to complete all requirements. All assessments in this course are designed to meet each of the course learning outcomes, and completion of more requirements shows higher levels of proficiency towards this learning outcome. The level of work required for a particular assignment to be considered complete are described in marking schemes available in D2L. There are no examinations in this course.

This type of grading is called **specifications grading** and was chosen to allow student choice and flexibility in how you would like to showcase your learning and mastery of course learning outcomes.

To earn a given letter grade, you must complete **all** the requirements listed in the column for that letter grade.

Learning Outcome	Assessment	Modality	Requirements for each letter grade**			
			D	C	B	A
Foundational Concepts and Research Methodologies	Discussions, practice problems, case studies, and peer review with reflection	Lecture/D2L				
	Online concept modules	D2L	Insufficient engagement demonstration of skills, understanding of material, with completion of 1 Critical Reflection Assignments	Satisfactory engagement demonstration of skills, understanding of material, with completion of 2 Critical Reflection Assignments	Above average engagement demonstration of skills, understanding of material, with completion of 3 Critical Reflection Assignments	Excellent to outstanding engagement demonstration of skills, understanding of material, with completion of 3 Critical Reflection Assignments
	Team research pitch	Lecture	Completion of 8/10 modules with a score of 80% or higher	Completion of 7/8 modules with a score of 80% or higher	Completion of 6/8 modules with a score of 80% or higher	Completion of 6/8 modules with a score of 90% or higher
Independent Literature Review	Topic & Article Selection	D2L	X	X	P	P
	Article mark-up & annotated bibliographies	D2L	P	P	P	P
	Topic summary & annotated bibliographies	D2L	P	P	P	P
	Topic synthesis and dissemination	D2L	Successful completion of 6/10 bibliography entries	Successful completion of 7/10 bibliography entries	Successful completion of 8/10 bibliography entries	Successful completion of 9/10 bibliography entries
	Peer reviews	Lecture	X	X	X	P
			Successful completion of 1/4 reviews	Successful completion of 2/4 reviews	Successful completion of 3/4 reviews	Successful completion of 4/4 reviews

** A grade of F will result if you do not successfully meet **all** of the requirements for a D grade.

** To achieve a "+" letter designation for B, C, or D grades, you must exceed **all** of the requirements for the letter grade when possible **OR** you may participate in and complete the assignments associated with our course's "Animal Behaviour Book Club." To achieve an A+, you must exceed all requirements for an A when possible **AND** participate in and complete the assignments associated with our course's "Animal Behaviour Book Club."

** You will earn a "-." letter designation if you do not successfully complete **one (and only one)** of the specifications required for a given letter grade (excluding the Literature Review topic synthesis/dissemination) **AND** meet all of the specifications for the lower letter grade.

Free Passes

You will be given **four 'free passes'** that can be used to:

A) Re-submit any component or assignment of the Literature Review (topic selection, article mark-ups, topic summary, topic dissemination) in order to get the work to an "acceptable" standard. The free pass and re-submitted assignment must be submitted **within one week (7 days) of the graded assignment being returned or mark being posted**. There is only one re-submission per free pass, only one free pass can be used per assignment, and the free pass must be completed and attached to the re-submitted assignment. Re-submitted material must also be accompanied by the original graded assignment and a brief statement (approximately one paragraph) describing how you have revised your assignment in response to that feedback.

B) Hand-in any assignment EXCEPT PEER REVIEWS AND SUBMISSIONS FOR PEER REVIEW up to 48 hours AFTER the due date without penalty. If a submission for peer review is submitted late, you will not receive peer review for that assignment.

Free passes are **not** transferable.

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

4. **Missed Components Of Term Work:**

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

6. **Course Materials:**

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

7. **Examination Policy:**

You are welcome to use your lecture notes, textbook, and information you individually look-up when answering the quiz questions. You are encouraged to review and study with classmates, but you are to answer the questions and submit your quiz individually.

Students should also read the Calendar, [Section G](#), on Examinations.

8. **Approved Mandatory And Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course.

9. **Writing Across The Curriculum Statement:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

10. Human & Living Organism Studies Statements:

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS. Students taking laboratory and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Undergraduate Program Director of the Department.

Students are expected to be familiar with [Section SC.4.1](#) of the University Calendar.

11. Reappraisal Of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar
- b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

12. Other Important Information For Students:

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).
- b. **SU Wellness Services:** For more information, see www.ucalgary.ca/wellnesscentre or call [403-210-9355](tel:403-210-9355).
- c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email (syva@ucalgary.ca) or phone at [403-220-2208](tel:403-220-2208). The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Sexual-and-Gender-Based-Violence-Policy.pdf>)
- d. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)
Student Academic Misconduct [Policy](#) and [Procedure](#)
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

e. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Lisa Gieg by email mgieg@ucalgary.ca preferably 10 business days before the due date of an assessment or scheduled absence.

f. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.

g. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: sciencerep@su.ucalgary.ca. [Student Ombudsman](#), Email: ombuds@ucalgary.ca.

h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.

i. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

Course Outcomes:

- Distinguish between proximate and ultimate explanations for behaviour.
- Describe how genetic differences among individuals and species and in the environments in which they develop interact to produce differences in behaviour characteristic of adult animals
- Compare the rigidity and flexibility of behaviour in different species and conditions under which each might be evolutionarily advantageous
- Describe sensory modalities of significance in perception of the environment and communication in a variety of animals, including their role in courtship, predation and its avoidance, navigation and migration and how these differ from humans
- Explain the use of comparative phylogenetic techniques to examine the evolution of behaviours
- Observe the behaviour of selected animals in the field and explain techniques used to quantify these behaviours
- Describe the variation in, and the factors underlying, the mating systems of animals
- Compare social behaviour in different animals with special reference to the caste-based complex societies of insects and the evolution of altruism

Electronically Approved - Aug 31 2021 11:50

Department Approval

Electronically Approved - Aug 31 2021 15:19

Associate Dean's Approval