



8. In this course, the quality of the student's writing in tutorial reports will be a factor in the evaluation of those reports to the extent that this affects the clear presentation of ideas. See also [Section E.2](#) of the University Calendar.

9. **Human studies statement:** N/A

### ETHICS IN THE BIOLOGICAL SCIENCES

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.

### 10. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#). Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Student Accommodations:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at [http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities\\_0.pdf](http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.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, preferably in writing, to the Associate Head of Biological Sciences, Dr. H. Addy by email [addy@ucalgary.ca](mailto:addy@ucalgary.ca) or phone 403 220-3140.

- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPPA). As one consequence, 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 also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: 403 220-3911 Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca)  
SU Faculty Rep. Phone: 403 220-3913 Email: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca) and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca);  
Student Ombuds Office: 403 220-6420 Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca); <http://ucalgary.ca/provost/students/ombuds>
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference – please participate in USRI Surveys.

Department Approval \_\_\_\_\_ ORIGINAL SIGNED \_\_\_\_\_ Date \_\_\_\_\_

Associate Dean's Approval for  
out of regular class-time activity: \_\_\_\_\_ ORIGINAL SIGNED \_\_\_\_\_ Date \_\_\_\_\_  
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**BIOLOGY 451 TENTATIVE LECTURE SCHEDULE WINTER 2018**

Note: This schedule is provisional, so some variation in timing & sequence of topics can be anticipated. Tutorials associated with written assignments appear in bold in this list (i.e., T2, T6, T9)

<b>Date</b>	<b>Lecturer</b>	<b>Topic</b>	<b>Tutorial</b>
8 Jan	Cartar	Intro to course	T1
10 Jan	Musiani	Keystone, umbrella, indicator and flagship species	
12 Jan	Musiani	Ecosystem functions and services: theory and examples	
15 Jan	Musiani	Ecosystem functions and services: examples and data (focus on carnivores)	<b>T2</b>
17 Jan	Musiani	Habitat loss and fragmentation: spatial patterns regionally and globally	
19 Jan	Musiani	Habitat fragmentation: landscape ecology	
22 Jan	Musiani	Rewilding	T3
24 Jan	Musiani	Conservation in fragmented landscapes (connectivity, crossing structures)	
26 Jan	Musiani	Overexploitation of species and resources	
29 Jan	Musiani	Overharvesting and "control"	T4
31 Jan	Musiani	New habitats, invasive species, new refugia	
2 Feb	Musiani	Climate change: global trends (an introduction)	
5 Feb	Musiani	Climate change: ecosystem effects (IPCC, caribou example)	T5
7 Feb	Musiani	Bottom-up & top-down effects, disturbance regimes & human influences (focus on fire)	
9 Feb	Musiani	Disturbance regimes (focus on predation)	
12 Feb	Musiani	Humans as ecosystem engineers and/or serving predation role	<b>T6</b>
14 Feb	Musiani	Conservation planning (command and control vs. public participation)	
16 Feb	Musiani	Conservation planning and decision making (examples globally)	
19 Feb	Reading Week		
21 Feb	Reading Week		
23 Feb	Reading Week		
26 Feb	Moehrenschrager	Reintroductions	*None
28 Feb	Moehrenschrager	Reintroductions	
2 Mar	Moehrenschrager	Conservation medicine	
5 Mar	Moehrenschrager	Conservation & poverty alleviation	T7
7 Mar	Cartar	Biodiversity: measurement	
9 Mar	Cartar	Biodiversity: measurement	
12 Mar	Cartar	Biodiversity: monitoring	T8
14 Mar	Cartar	Biodiversity: causes	
16 Mar	Cartar	Biodiversity: causes	
19 Mar	Cartar	Biodiversity: consequences	<b>T9</b>
21 Mar	Cartar	Biodiversity: consequences	
23 Mar	Cartar	Biodiversity: how much?	
26 Mar	Cartar	Biodiversity: how much?	T10
28 Mar	Cartar	Biodiversity: genetics	
30 Mar		Easter	
2 Apr	Cartar	Biodiversity: genetics	T11
4 Apr	Cartar	Biodiversity: design of protected areas	
6 Apr	Cartar	Biodiversity: design of protected areas	
9 Apr	Cartar	Conflicting agendas I: Salmon farming in BC	No tutorial
11 Apr	Cartar	Conflicting agendas II: AB Forests	
13 Apr	Cartar	Review session	

\* No tutorial – mid-term exam this week