

7. **Examination Policy:** No electronic or written aids (e.g., cell phones, tablets, computers, PDAs, notes, textbooks) will be allowed during writing of any exams. Non-programmable calculators will be permitted to answer quantitative questions on exams, if applicable, and permission to do this will be clearly indicated on the examination paper. Students should also read the Calendar, [Section G](#), on Examinations.
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 & 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.

10. Students are expected to be familiar with Section SC.4.1 of the University Calendar.

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 **15 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 immediately submit the Reappraisal of Graded Term work form to the department in which the course is offered. The department will arrange for a reassessment of the work if, and only if, the student has sufficient academic grounds. 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.

11. **Effective Communication Among Students and Faculty:**

Instructors are often overwhelmed with student emails (e.g. hundreds in a given day), especially when deadlines approach. However, the most fruitful relationship between students and instructors, and also among students, has been dialogical since ancient times. A dialogue implies communicating both ways. In addition, all can listen, learn and receive the same information – a matter of fairness. It is therefore advised that questions are asked in class, or in other spaces where all students are present (e.g. a lab, if possible), before sending emails. Instructors will also allow for questions and answers during class time. There are exceptions: depending on the subjects dealt with in specific sections, the instructors will indicate if quick questions will be best addressed by email or discussed by phone or in office hours.

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 Center:** The Students Union Wellness Centre provides health and wellness support for students including information and counselling on physical health, mental health and nutrition. For more information, see www.ucalgary.ca/wellnesscentre or call 403-210-9355.
- c. **Sexual Violence:** The University of Calgary is committed to fostering a safe, productive learning environment. The Sexual Violence Policy (<https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>) is a fundamental element in creating and sustaining a safer campus environment for all community members. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced some form of sexual misconduct to talk to someone about their experience, so they can get the support they need. 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 (svsa@ucalgary.ca) or phone at 403-220-2208.

- c. **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. Examples of academic misconduct may include: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; collaborating in whole or in part without prior agreement of the instructor; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. **These are only examples.**
- e. **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on assembly points.
- f. **Academic Accommodation Policy:** 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 [procedure-for-accommodations-for-students-with-disabilities.pdf](#). Students needing an accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Associate Head, Undergraduate of the Department of Biological Sciences, Heather Addy by email addy@ucalgary.ca or phone 403 220-6979. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question. See Section E.4 of the University Calendar.
- g. **Safewalk:** Campus Security will escort individuals day or night (See the Campus Safewalk website). Call 403-220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.
- h. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). 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.
- i. **Student Union Information:** VP Academic, Phone: 403-220-3911 Email: suvpaca@ucalgary.ca. SU Faculty Rep., Phone: 403-220-3913 Email: sciencerep@su.ucalgary.ca. Student Ombudsman, Email: suvpaca@ucalgary.ca.
- j. **Internet and Electronic Device Information:** Unless instructed otherwise, cell phones should be turned off during class. All communication with other individuals via laptop, tablet, smart phone or other device is prohibited during class unless specifically permitted by the instructor. Students that violate this policy may be asked to leave the classroom. Repeated violations may result in a charge of misconduct.
- k. **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.

Department Approval _____ ORIGINAL SIGNED _____ Date _____

Associate Dean's Approval for
out of regular class-time activity: _____ ORIGINAL SIGNED _____ Date _____
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Course Outcomes:

- o Evaluate, explain and critique peer-reviewed papers in conservation biology.
- o Communicate opinions on current topics in conservation biology, both orally in small group discussions, and in written form through short essays and opinion pieces.
- o Estimate the components of biodiversity, at local to global scales.
- o Apply hypotheses and predictions to explain patterns in biodiversity, and to estimate the likely outcomes of various management practices and policies that potentially affect single species or biodiversity.
- o Apply ecological and evolutionary theories and methodologies to solving problems related to conservation of biodiversity, from single species and to communities, ecosystems, and the biosphere.

BIOLOGY 451 TENTATIVE LECTURE SCHEDULE WINTER 2019

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)

Date	Lecturer	Topic	Tutorial
11 Jan	Cartar	Intro to course	
14 Jan	Cartar	Biodiversity: measurement	T1
16 Jan	Cartar	Biodiversity: measurement	
18 Jan	Cartar	Biodiversity: monitoring	
21 Jan	Cartar	Biodiversity: how much?	T2
23 Jan	Cartar	Biodiversity: how much?	
25 Jan	Cartar	Biodiversity: how much?	
28 Jan	Cartar	Biodiversity: causes	T3
30 Jan	Cartar	Biodiversity: consequences	
01 Feb	Cartar	Biodiversity: genetics	
04 Feb	Cartar	Biodiversity: genetics	T4
06 Feb	Cartar	Biodiversity: design of protected areas	
08 Feb	Cartar	Biodiversity: design of protected areas	
11 Feb	Cartar	Conflicting agendas I: AB Forests	T5
13 Feb	Cartar	Using science in conservation: The NGO Experience I	
15 Feb	Cartar	Using science in conservation: The NGO Experience II	
20 Feb	Reading Week		
20 Feb	Reading Week		
22 Feb	Reading Week		
25 Feb	Cartar	Review session	*None
27 Feb	Moehrenschlager	Reintroductions I	
01 Mar	Moehrenschlager	Reintroductions II	
04 Mar	Moehrenschlager	Conservation medicine	T6
06 Mar	Moehrenschlager	Conservation & poverty alleviation	
08 Mar	Moehrenschlager	Conservation & poverty alleviation	
11 Mar	Musiani	Keystone, umbrella, indicator and flagship species	T7
13 Mar	Musiani	Ecosystem functions and services: theory and examples	
15 Mar	Musiani	Ecosystem functions and services: examples and data (focus on carnivores)	
18 Mar	Musiani	Habitat loss and fragmentation: spatial patterns regionally and globally	T8
20 Mar	Musiani	Habitat fragmentation: landscape ecology	
22 Mar	Musiani	Rewilding	
25 Mar	Musiani	Conservation in fragmented landscapes (connectivity, crossing structures)	T9
27 Mar	Musiani	Overexploitation of species and resources	
29 Mar	Musiani	Overharvesting and "control"	
01 Apr	Musiani	New habitats, invasive species, new refugia	T10
03 Apr	Musiani	Climate change: global trends (an introduction)	
05 Apr	Musiani	Climate change: ecosystem effects (IPCC, caribou example)	
08 Apr	Musiani	Bottom-up & top-down effects, disturbance regimes & human influences (focus on fire)	T11
10 Apr	Musiani	Disturbance regimes (focus on predation)	
12 Apr	Musiani	Conservation planning (command and control vs. public participation)	

* No tutorial – mid-term exam this week