



COURSE OUTLINE

1. **Course:** ENSC 201, Introduction to Environmental Science - Winter 2019

Lecture 01: TR 17:00 - 18:15 in ST 145

Instructor	Email	Phone	Office	Hours
William Holden	wnholden@ucalgary.ca	403 220-4886	ES 416	T & R 14:30 to 16:45

An introduction to Environmental Science. Topical issues in Environmental Science including climate change, aquatic systems, agriculture, forestry, mining, energy, endangered species, and protected areas contextualized within the framework of law, policy, economics, sustainability, and the precautionary principle.

Course outcomes: By the end of this course students will have a solid grounding in the basic concepts of environmental science such as (but not limited to) sustainable development (both intergenerational equity and intragenerational equity), the precautionary principle, biodiversity, genetic diversity, species endemism, alien invasive species, biomagnification of toxins, anthropogenic climate change, drought, the Clausius-Clapeyron Relationship, and habitat fragmentation. These topics will be discussed in the context of human resource extraction and wherever applicable microeconomic theory will be used to explain concepts. Students will also be introduced to the rudiments of Canadian environmental law.

Course Site:

D2L: ENSC 201 L01-(Winter 2019)-Introduction to Environmental Science

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

2. **Requisites:**

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

None.

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Component(s)	Weighting %	Date
First Midterm Examination	25	14 February 2019
Second Midterm Examination	25	21 March 2019
Final Examination	50	April 2019 (Registrar Scheduled)

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Minimum % Required	100 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

A grade of A+ is given for a mark of 100%. If, for some reason, the distribution of grades determined using the aforementioned conversion chart appears to be abnormal the instructor reserves the right to change the grade conversion chart if the instructor, at the instructor's discretion, feels it is necessary to more fairly represent student achievement. Note: these boundaries will only be changed if such a change causes an increase in student grades. Tests and class participation will be marked on a numerical (percentage) basis. A passing grade in any one component is not required for the student to pass the course as a whole.

This course has a registrar scheduled final exam.

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

The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize themselves with these regulations. See also [Section E.3](#) of the University Calendar.

Please note that the coordinator needs to be informed of any missed components within 48 hours of the missed midterm.

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

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

6. **Course Materials:**

Required Textbook(s):

Dearden, P. & B Mitchell ,*Environmental Change & Challenge. Fifth Edition.* : Oxford University Press.

Other readings will be posted on D2L.

7. **Examination Policy:**

There will be a comprehensive final examination in this course, it will be scheduled by the Registrar, written in a gymnasium, and held during the final examination period. There will also be two midterm examinations that will be held in class with the first mid-term to be written on 14 February 2019 and the second midterm to be written on 21 March 2019. **THERE WILL BE NO MAKEUP OR DEFERRED EXAMINATIONS** under any circumstances, nor may the examinations be written early. Students unable to write a midterm examination because of documented illness; family emergency or religious observance will have the weight shifted onto the final examination. All examinations will be closed book examinations and calculators are neither allowed nor necessary. Should the writing of a midterm examination for an entire lecture section become impossible due to events beyond the control of the instructor (such as, and not exclusively consisting of; inclement weather, instructor's illness, unavailable facilities, or other "acts of fate") the midterm examination will be written in the next possible class.

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 Studies Statement:**

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

See also [Section E.5](#) 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 **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 re-assessment 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.

Students will **not be allowed** to discuss your grade with the instructor for 48 hours after receiving your examination and, if you wish to discuss your grade with the instructor, you **must do so** within 15 days after receiving your examination.

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](tel: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](tel:403-220-2208).
- d. **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 Program Director of the Environmental Science Program, Dr. Daniel Shugar by email daniel.shugar@ucalgary.ca or phone 403 220-5028. 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: suypaca@ucalgary.ca. SU Faculty Rep., Phone: [403-220-3913](#) Email: sciencerep@su.ucalgary.ca. Student Ombudsman, Email: suypaca@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.

The lectures for this course will be based upon the following readings. We will commence with these readings on the first class and proceed with through them in the order stipulated below. The first midterm examination will be based only on Unit I, the second midterm examination will be based only on Unit II, and the final examination will be comprehensive.

Unit I: Introduction to the Ecosphere

Dearden & Mitchell (2016) Chapter One; Holden & Jacobson (2012, pp. 185-186, pp. 217-219).
Dearden & Mitchell (2016) Chapter Two; Holden & Jacobson (2012, p.61, pp. 233-235)
Dearden & Mitchell (2016) Chapter Three; Holden & Jacobson (2012, p. 234).
Dearden & Mitchell (2016) Chapter Four.

Unit II: Climate Change, Aquatic Resources, and Agriculture

Dearden & Mitchell (2016) Chapter Seven; Holden & Jacobson (2012, pp. 93-102., pp. 36-38).
Dearden & Mitchell (2016) Chapter Eleven.
Dearden & Mitchell (2016) Chapter Eight; Holden & Jacobson (2012, p. 234).
Dearden & Mitchell (2016) Chapter Ten.

Unit III: Forestry, Minerals, Energy, mining, and Protected Areas

Dearden & Mitchell (2016) Chapter Nine.
Dearden & Mitchell (2016) Chapter Twelve; Holden & Jacobson (2012), pp. 35-41, pp. 150-160, pp. 233-235, and pp. 235-237.
Dearden & Mitchell (2016) Chapter Fourteen.

Department Approval:

Electronically Approved

Date: 2018-11-26 20:44