



**REVISED COURSE OUTLINE FOR REMOTE LEARNING**

To account for the necessary transition to remote learning from March 13 onward, adjustments have been made to assessment deadlines and requirements so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff). If you are unable to meet the deadlines or requirements specified, please connect with your course instructor to work out alternative dates/assessments.

1. **Course:** ENSC 502, Special Problems In Environmental Management - Fall 2019 & Winter 2020

Lecture 01: TR 08:00 - 09:15 - Remote Learning (check with your instructor or coordinator for details)

Instructor	Email	Phone	Office	Hours
Dr Ann-Lise Norman	alnorman@ucalgary.ca	403 220-5405	SB 133	TBA
Dr Jurgen Gailer	jgailer@ucalgary.ca	210-8899	SB 405	TBA

**Course Site:**

D2L: ENSC 502 L01-(Fall 2019 - Winter 2020)-Special Problems In Environmental Management

**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.

**Prerequisite(s):**

Admission to the Environmental Science program.

**Corequisite(s):**

Prerequisite or Corequisite: Environmental Science 401.

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
Quiz I	2.5	Nov 5, 2019
Quiz II	2.5	Dec 5, 2019
Quiz III	2.5	Feb 13, 2020
Quiz IV	2.5	Apr 14, 2020
Participation	10	Each class
Group Assignment	5*	Oct 8, 2019
Individual Assignment	15	Dec 5, 2019
Group Research Proposal	10*	Oct 31, 2019
Group Project Report	25*	Apr 14, 2020
Group Poster	15*	Apr 14, 2020
Group Final Presentation	10*	Apr 7 & 9, 2020

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
<b>Minimum % Required</b>	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

\*For the group work, each student will give a weight to the contribution of their group members to reflect the contribution of their group members to the project. The instructors reserve the right to change this weighting in the interests of fairness.

Note that full class participation grades will be awarded from March 17 2020 on.

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

The University has suspended requirements for students to provide evidence for reasons for absences so please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations. Please let your instructor know immediately if you are ill and cannot meet the deadlines specified.

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

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

Students are expected to be available to interact with their groups and/or conduct laboratory and/or field activities outside of class time as often as needed and as required by the project. Meetings may be held in person, via skype, or any other means the group determines is appropriate. **REGULARLY SCHEDULED CLASSES HAVE PRECEDENCE OVER ANY OUT-OF-CLASS ACTIVITY.** If you have a clash with this out of class activity, please inform your instructor as soon as possible so that alternate arrangements may be made for you.

#### 6. **Course Materials:**

There is no required textbook for this class. Class materials and relevant links will be provided on D2L.

#### 7. **Examination Policy:**

No aids are allowed on tests or examinations. There will not be a final examination in this course.

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:**

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

Students in this course may be expected to participate as researchers in human studies (e.g. questionnaires, interviews, etc.) depending on group selection and project definition.

#### 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 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](http://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](mailto: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](mailto: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](tel: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](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@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.
- l. **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.

**ENVIRONMENTAL SCIENCE 502  
LECTURE SCHEDULE 2019-2020**

Thanksgiving: Monday October 14  
Reading Week: November 10-16

<b>Fall 2019</b>		
<b>Date</b>	<b>What is Happening?</b>	<b>Who is Doing it?</b>
R Sept 5	Introduction to ENSC 502 & Discussion	Norman/Gailer
T Sept 10	Ecosystem Functions & Climate Change	Norman/Gailer
R Sept 12	Class Discussion	ENSC 502 Class
T Sept 17	Class Discussion (seminal paper/proposal)	ENSC 502 Class (Gailer/Norman)
R Sept 19	Ghost Watershed	Ghost Watershed Committee
T Sept 24	Riparian Restoration	Flora Giesebrecht
R Sept 26	Forest Dynamics	Mary Reid
T Oct 1	How to Give a Talk	Norman
R Oct 3	Forest Carbon Accounting I	Caren Dymond
T Oct 8	Forest Carbon Accounting II	Caren Dymond
R Oct 10	<b>Student Presentations</b>	ENSC 502 Class
T Oct 15	<b>Student Presentations</b>	ENSC 502 Class
R Oct 17	Class Discussion	ENSC 502 Class
T Oct 22	Glacial Meltwater Contributions to the Bow	Kristina Miller
R Oct 24	Carbon Accounting	Christian Reuten
T Oct 29	<b>Project Updates - Proposals</b>	ENSC 502 Class
R Oct 31	<b>Project Updates - Proposals</b>	ENSC 502 Class
T Nov 5	Quiz I	Norman & Gailer away
R Nov 7	TBD	
T Nov 12	<b>READING WEEK</b>	
R Nov 14	<b>READING WEEK</b>	
T Nov 19	TBD	
R Nov 21	TBD	
T Nov 26	TBD	
R Nov 28	TBD	
T Dec 3	TBD	
R Dec 5	Quiz II	
<b>Holiday Break</b>		
Family Day: Monday February 17 Good Friday: April 10 Reading Week: February 16-22		
<b>Winter 2020</b>		

T Jan 14	TBD	
R Jan 16	TBD	
T Jan 21	<b>Project Updates</b>	ENSC 502 Class
R Jan 23	<b>Project Updates</b>	ENSC 502 Class
T Jan 28	TBD	
R Jan 30	TBD	
T Feb 4	TBD	
R Feb 6	TBD	
T Feb 11	TBD	
R Feb 13	Quiz III	
T Feb 18	<b>READING WEEK</b>	
R Feb 20	<b>READING WEEK</b>	
T Feb 25	TBD	
R Feb 27	TBD	
T Mar 3	<b>Project Updates</b>	Class of ENSC 502
R Mar 5	<b>Project Updates</b>	Class of ENSC 502
T Mar 10	TBD	
R Mar 12	TBD	
T Mar 17	TBD	
R Mar 19	TBD	
T Mar 24	TBD	
R Mar 26	TBD	
T Mar 31	TBD	
R Apr 2	Logistics, USRIs Dixon Cup	
T Apr 7	<b>Student Presentations</b>	Class of ENSC 502
R Apr 9	<b>Student Presentations</b>	Class of ENSC 502
T Apr 14	Quiz IV	
	<b>END of Term</b>	

### Course Outcomes:

- Synthesize the current knowledge on a topic and perform an effective literature review.
- Develop the framework and logic to frame a topical research question.
- Collect original data, or draw on existing data to support an original hypothesis.
- Collaborate with group members to assign roles and duties, define and achieve milestones, and communicate with mentors.
- Integrate findings with group members to communicate results professionally.
- Interpret novel data, or a novel approach to data analysis, and analyze results in the context of the literature to derive new conclusions.
- Produce clear and concise research reports that can be utilized by the community;
- Present results to the community, government, and industry at an Open House.

Electronically Approved - Mar 20 2020 10:49

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### Department Approval

Electronically Approved - Mar 23 2020 08:55

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**Associate Dean's Approval for alternate final examination arrangements or remote learning**