COURSE OUTLINE

1. **Course:** ENSC 501, Environmental Science Field Course II - Fall 2020

   Lab 01: MTWRF 08:00 - 18:00 - Online

   **Instructor**                                     **Email**       **Phone**     **Office**  **Hours**
   Dr Jurgen Gailer                                  jgailer@ucalgary.ca 210-8899 SB 405 TBA
   Paul Galpern                                      TBA             TBA           TBA          TBA

   All oral presentations will be synchronous as outlined in the course schedules of Dr. Gailer (August 24th-noon August 28th) and Dr. Galpern (noon August 28th-September 3). September 4th will be our Global Agri-environmental Conference organized by both instructors and will involve discussions between students that are assigned different roles related to the topic.

   All written assignments are due on Friday October 9th at 4 pm and will be submitted using the Dropbox feature of the D2L site for this course. An appropriate file name will be communicated to the students.

   **In Person Delivery Details:**

   Much of the course will be delivered electronically. However two assignments will require students to visit the field "in person." In Dr. Gailer's half of the course, students will collect surface water samples in their neighbourhood. To this end, students will pick up sampling equipment at the UofC, collect two water samples and return these water samples to the UofC for analysis. After the results are posted on D2L, each student has to complete an assignment using these results. Students that are not physically present in Calgary will be provided with results from two water samples that will be collected by one of the instructors and will then complete the same assignment as all other students. Students will fill in a field level hazard assessment form prior to the actual water sampling activities that will be submitted to a D2L Dropbox.

   In Dr. Galpern's part (paul.galpern@ucalgary.ca, 403-614-9331) of the course, students will visit locations of their choice in their neighbourhood. The goal of this activity is to photograph and observe natural infrastructure such as trees, grassland, and wetlands in order to present these data in a report. Which neighbourhood students choose will depend on their geographic location. They will be encouraged to choose the neighbourhood in which they currently reside. If an appropriate neighbourhood is not in Calgary, the assignment may still be completed successfully. Full details regarding this activity will be provided during the course. It will also require a field level hazard assessment form to be submitted to the D2L Dropbox.

   **Course Site:**

   D2L: ENSC 501 B01-(Fall 2020)-Environmental Science Field Course II

   **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):**
   Environmental Science 401 and admission to the Environmental Science program.

   **Note(s):**
   a. This course occurs in rugged field conditions and varying weather, for which participants must be prepared and equipped. A supplementary fee will be assessed to cover additional costs associated with this course. Students will require consent of the program to drop this course.

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:
<table>
<thead>
<tr>
<th>Component(s)</th>
<th>Weighting %</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>JG: Individual Assignment 1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Individual Assignment 2</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Individual Assignment 3</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Group Assignment 1</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Oral presentation attendance</td>
<td>5</td>
<td>Aug 24-27, Aug 28 half day</td>
</tr>
<tr>
<td>PG: Individual Assignment 1</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Individual Assignment 2</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Individual Assignment 3</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Oral presentation attendance</td>
<td>5</td>
<td>Aug 28 half day, Aug 31-Sept 3</td>
</tr>
<tr>
<td>Global Agri-Environmental Conference attendance/JG and PG</td>
<td>10</td>
<td>Sept 4</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Minimum % Required</th>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95%</td>
<td>90%</td>
<td>85%</td>
<td>80%</td>
<td>75%</td>
<td>70%</td>
<td>65%</td>
<td>60%</td>
<td>55%</td>
<td>50%</td>
<td>45%</td>
</tr>
</tbody>
</table>

Each piece of work (individual assignments, group assignments) submitted by each 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.

This course has a registrar scheduled final exam.

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, then the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course.

In the event that a student misses a synchronously delivered oral presentation that forms part of the attendance grade an accommodation will be made. This is intended to support students who may be in a different time zone, who need to take care of a child or relative at the time of the presentation, or due to extenuating circumstances. In such case, the student will inform the TA about which synchronously delivered oral presentation was missed, and will be provided a link to a Zoom recording. To make up the missed attendance, the student will be asked to answer a question related to the material covered in order to get full attendance marks.

5. Scheduled Out-of-Class Activities:

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

There are no scheduled out of class activities for this course. This class is an inquiry based course that involves oral presentations/lectures as well as individual and group participation in in-class discussions. The course runs from Monday August 24th to Friday September 4th.

6. Course Materials:

There is no textbook for this course. Relevant materials will be posted on D2L.

There is a GIS component in the course. In order to complete this, students will require a Windows or Mac computer on which they can install the freely-available software Quantum GIS. Students will be supported in the installation process, and in learning to use this software during class time. Activities related to the GIS component are assessed in two of the assignments in Galpern’s half of the course.
7. Examination Policy:

There will not be a final examination in this course. All written assignments are due on Friday October 9th at 4 pm and will be submitted using the Dropbox feature of the D2L site for this course. Late assignments will be accepted, but there will be a 10% deduction of the assignment total per 24 h following the due date up to period of 5 days after which no assignments will be accepted.

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.

In this course, the quality of the student's writing (language, spelling, grammar, etc.) in reports and assignments will be a factor in the evaluation of the work.

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 ten business days of either being notified about the mark, or of the item's return to 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.

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/Instructor of 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 1.3 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 10 business days of either being notified about the mark, or of the item's return to class. If the student is not satisfied with the outcome, the student shall immediately submit the reappraisal 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.

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: For more information, see www.ucalgary.ca/wellnesscentre or call 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 (svsa@ucalgary.ca) or phone at 403-220-2208. The complete University of Calgary policy on sexual violence can be viewed at [https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf](https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf).

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. **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](https://www.ucalgary.ca/policies/files/policies/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.

f. **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.

g. **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: 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:**

- Students demonstrate an understanding of the broad range of human impacts on the environment and are able to critically comment on how these can be mitigated.
- Students can explain the principles that form the basis for established environmental practices and procedures.
- Students develop and critically assess the experimental design of laboratory procedures and protocols.
- Students collect and interpret new and interesting data to come to novel conclusions.
- Students execute research and communication professionally within a research group so every group member has opportunity to contribute.
- Students communicate scientific data in effective and engaging manner through tables, figures and concise reports.
- Students synthesize and critically appraise reports and data on environmental pollution.
Department Approval

Associate Dean’s Approval for...

1. In person delivery component(s).