

**GEOGRAPHY 374
WINTER TERM 2020**

**SPECIAL TOPICS IN GEOGRAPHY:
INTEGRATED ENVIRONMENTAL MANAGEMENT: FROM THEORY TO PRACTICE**

COURSE: Geography 374 – Integrated Environmental Management
Lectures: M 0830-1020 AM (EV3 4412)

INSTRUCTOR: Dr. J. Beebe
Room 310 – ENV1; ext 35490 (jbeebe@uwaterloo.ca)
Office Hours: M 10:30-11:15 AM or by appointment.

COURSE CONTENT AND ORGANIZATION

The purpose of this course is to outline the environmental requirements for managing biophysical environments across a number of administrative boundaries—from the grand scale environmental plans put in place by federal governments to the small scale plans put in place by local governments. The challenge for students is to learn how to accommodate biophysical process which do not follow political boundaries within administrative frameworks in such a manner that the processes can be protected (managed) effectively.

A number of case examples will be used, ranging from managing natural resources to maintaining biophysical flows, including dealing with the conflict between human wants and needs and the environment. A detailed look at International efforts to standardize environmental practices (for example ISO 14000 EMS) will be undertaken. The issue of practicality will be highlighted through showing examples of application of theory into real world practice.

The course is covered across the teaching term during which we will assess environmental management according to the broad categories of:

- Change, Complexity, Uncertainty and Conflict
- Sustainable Development and the Ecosystem Approach
- Complexity and Turbulence: Why don't things go right?
- Assessing Alternatives
- Implementation and Monitoring
- International Initiatives

Objectives of the course are to

- 1) Understand the sequence of processes that must be followed in Canada for environmental management to be effective;
- 2) Recognize the role that stakeholders play in creating barriers to effective management;
- 3) Evaluate the effectiveness of local environmental management strategies on a continental and then global scale; and
- 4) Understand the role that international organizations play in guiding environmental management strategies.

TEXTBOOK

No text book is required in this course. Lectures are developed from a range of materials including textbooks, scientific papers and government documents. Some of the supplemental materials listed below as well as selected journal articles may be required reading. Each lecture will be posted on LEARN. The following supplementary materials are relevant to the course.

STUDENT EVALUATION

Essay Proposal	5%
Midterm Exam	25%
Major Essay	30%
Final Exam	40%
Total	100%

IMPORTANT DATES:

Jan 6 **Lectures Begin**

Jan 27 **Essay Proposals Due (4pm via Dropbox on LEARN). A late penalty will apply. The late penalty will be communicated with the class during the term as we discuss the assignment.**

Feb 10 **Mid-Term Exam in class**

Should a student miss the mid-term exam they must provide documentation explaining the absence. Once received, the weight of the missed mid-term will be added to the weight of the final exam. This will make the final exam weight 65%.

Feb 17 **Family Day**

Feb 18-21 **Reading Week**

Mar 23 **Major Essay Due (4pm via Dropbox on LEARN). A late penalty will apply. The late penalty will be communicated with the class during the term as we discuss the assignment.**

Mar 30 **Major Exam in class**

There are other important dates in the University Calendar which may apply to your specific situation. It is your responsibility to ensure you are aware of these dates and act accordingly.

COURSE ORGANIZATION

One hour and 50 minutes of lectures per week in one block (Mondays from 0830:1020).

Note this is an interactive course, there will be time set aside for discussion of specific questions in the lecture period, and all students are expected to contribute to the discussion. Specific discussion questions may be provided the week before they are dealt with, or will be provided in class at the time of discussion.

The discussion will be led by me, however do not expect me to carry the content. Material discussed in this manner will be examinable, so please be prepared to read up beforehand and to contribute during the discussion.

ESSAY PROPOSAL

Each student is to prepare a 4-page essay proposal which outlines the material which will be submitted for the Major Paper.

This exercise is to assist the student to focus on an environmental issue which can be put into the context of the course (Change, Complexity, Uncertainty and Conflict).

Potential topics will be discussed early in the term.

MAJOR ESSAY

The major essay for the course will focus on an environmental issue of interest to the student. Potential topics for these essays will be discussed in class, however it is the responsibility of the students to choose a topic which is of interest to them and is deemed appropriate by the instructor.

Topics are not to be changed between the proposal submission and the essay submission.

More details regarding this will be provided during the lecture period.

MAJOR (FINAL) EXAM

The major (final) examination **will be written on the last day of classes (30 March 2020) from 08:30am to 10:20pm**. Discussions about the exam will be provided during the term leading up to the exam.

COURSE MATERIALS

Materials for the class (i.e., copies of lecture-slides, course outline, and assignment materials) will be made available on the university's web-based learning management system - LEARN. To log into LEARN go to <http://learn.uwaterloo.ca/>

Note that the powerpoint files are only one part of the course materials. The discussion that accommodates the slides during the lectures represents the core component of the course and will be the material from which the quiz and exam questions will be taken.

Additional readings may also be placed on Learn for use by the students. When this occurs an announcement will be made in the lectures. It is the responsibility of the student to access Learn to ensure they are up-to-date with the course.

TURNITIN.COM: Text matching software (Turnitin) may be used to screen assignments in this course. Turnitin is used to verify that all materials and sources in assignments are documented. Students submissions are stored on a U.S. server, therefore students must be given an alternative (e.g., scaffolded assignment or annotated bibliography), if they are concerned about their privacy and/or security. Students will be given due notice, in the first week of the term and/or at the time assignment details are provided, about arrangements and alternatives for the use of Turnitin in this course.

It is the responsibility of the student to notify the instructor if they, in the first week of term or at the time assignment details are provided, wish to submit the alternate assignment.

SUCCESS IN THIS COURSE CAN BE ACHIEVED BY

1. Reviewing the powerpoint slides prior to each lecture
2. Completing any required readings prior to each lecture
3. Noting any questions about the material so you can ask during lectures
4. Use office hours to clarify anything you don't understand.

COMMUNICATING WITH THE PROFESSOR

The best means of communication is by attending office hours. Apart from that, please use email. A voicemail can be left at my extension but please be aware that I may not be able to access voicemail daily and your call may wait.

Contact with me is required to be from your uwaterloo.ca email address. It is a University policy to have email contact between students and the University via this means. Therefore, I will not respond to emails from other domains (Hotmail, google, etc.).

CHEATING

Cheating is defined for the purposes of this class as any attempt to gain advantage by either copying another students paper or using any other means to read/review material, either in paper or electronic format, or somehow communicate with others during quizzes and exams. Should a student be suspected of such behavior, they will be advised at the time and will be allowed to complete the works. Their paper, and the papers of those around the student, will be tagged for assessment. Upon grading the student will be invited to discuss the event with me prior to a decision being made. Any penalties imposed will follow University guidelines.

If at any time a student feels they have concerns I would ask you to please see me immediately so these concerns may be addressed. In instances such as these please do not wait for office hours; contact me by email.

ACADEMIC MISCONDUCT

From time to time issues relating to academic misconduct arise. It is the student's responsibility to be familiar with the University of Waterloo requirements relating to academic integrity, and it is their responsibility to treat others with the utmost respect.

To ensure everyone is familiar with the some of the terminology, please see below:

Intellectual Property: Students should be aware that this course contains the intellectual property of their instructor, TA, and/or the University of Waterloo. Intellectual property includes items such as: - Lecture content, spoken and written (and any audio/video recording thereof); -Lecture handouts, presentations, and other materials prepared for the course (e.g., PowerPoint slides); -Questions or solution sets from various types of assessments (e.g., assignments, quizzes, tests, final exams); and - Work protected by copyright (e.g., any work authored by the instructor or TA or used by the instructor or TA with permission of the copyright owner).

Course materials and the intellectual property contained therein, are used to enhance a student's educational experience. However, sharing this intellectual property without the intellectual property owner's permission is a violation of intellectual property rights. For this reason, it is necessary to ask the instructor, TA and/or the University of Waterloo for permission before uploading and sharing the intellectual property of others online (e.g., to an online repository).

Permission from an instructor, TA or the University is also necessary before sharing the intellectual property of others from completed courses with students taking the same/similar courses in subsequent terms/years. In many cases, instructors might be happy to allow distribution of certain materials. However, doing so without expressed permission is considered a violation of intellectual property rights.

Please alert the instructor if you become aware of intellectual property belonging to others (past or present) circulating, either through the student body or online. The intellectual property rights owner deserves to know (and may have already given their consent).

Academic Integrity: In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. The University's guiding principles on academic integrity can be found here:

<http://uwaterloo.ca/academicintegrity>. ENV students are strongly encouraged to review the material provided by the university's Academic Integrity office specifically for students:

<http://uwaterloo.ca/academicintegrity/Students/index.html>

Students are also expected to know what constitutes academic integrity, to avoid committing academic offenses, and to take responsibility for their actions. Students who are unsure whether an action constitutes an offense, or who need help in learning how to avoid offenses (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. Students may also complete the following tutorial: <https://uwaterloo.ca/library/get-assignment-and-research-help/academic-integrity/academic-integritytutorial>

When misconduct has been found to have occurred, disciplinary penalties will be imposed under Policy 71 – Student Discipline. For information on categories of offenses and types of penalties, students

should refer to Policy 71 - Student Discipline: <https://uwaterloo.ca/secretariat-general-counsel/policiesprocedures-guidelines/policy-71>. Students who believe that they have been wrongfully or unjustly penalized have the right to grieve; refer to Policy #70, Student Grievance: <https://uwaterloo.ca/secretariat-general-counsel/policies-procedures-guidelines/policy-70>

Note for students with disabilities: AccessAbility Services, located in Needles Hall, Room 1401, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with AccessAbility Services at the beginning of each academic term.

Mental Health: The University of Waterloo, the Faculty of Environment and our Departments/Schools consider students' well-being to be extremely important. We recognize that throughout the term students may face health challenges - physical and / or emotional. Please note that help is available. Mental health is a serious issue for everyone and can affect your ability to do your best work. Counselling Services <http://www.uwaterloo.ca/counselling-services> is an inclusive, non-judgmental, and confidential space for anyone to seek support. They offer confidential counselling for a variety of areas including anxiety, stress management, depression, grief, substance use, sexuality, relationship issues, and much more.

Religious Observances: Students need to inform the instructor at the beginning of term if special accommodation needs to be made for religious observances that are not otherwise accounted for in the scheduling of classes and assignments.

Grievance: A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. See Policy 70 - Student Petitions and Grievances, Section 4, www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please contact your Undergraduate Advisor for details.

Appeals: A decision made or penalty imposed under Policy 70 - Student Petitions and Grievances (other than a petition) or Policy 71 – (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) www.adm.uwaterloo.ca/infosec/Policies/policy72.htm

Communications with Instructor and Teaching Assistants: All communication with students must be through either the student's University of Waterloo email account or via Learn. If a student emails the instructor or TA from a personal account they will be requested to resend the email using their personal University of Waterloo email account.

Recording lectures: Use of recording devices during lectures is only allowed with explicit permission of the instructor of the course. If allowed, video recordings may only include images of the instructor and not fellow classmates. Posting of videos or links to the video to any website, including but not limited to social media sites such as: facebook, twitter, etc., is strictly prohibited.

Unclaimed Assignments: Unclaimed assignments (midterm exams/quizzes/written assignments) will be retained until one month after term grades become official in quest. After that time, they will be destroyed in compliance with UW's confidential shredding procedures