ERS 215
Environmental and Sustainability Assessment I
Fall 2018

Mondays, 6:30pm-9:20pm
EV3-1408

Instructor:
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Office EV2-2027
dmccarthy@uwaterloo.ca
Office hours: Tuesdays, 1:00-2:00pm

TAs: TBA

TA Office Hours: TBA

Description:
This course is an introduction to the world of environmental assessment (EA). We will explore processes and techniques for incorporating environmental considerations in planning and evaluating proposals for future undertakings that may have significant social and ecological effects. The course provides an overview of the methodologies for the design and conduct of environmental impact studies. The main objective of this course is to introduce students to environmental assessment, with a focus on the origins, purposes, processes and gradual evolution of EA toward a sustainability-oriented framework, with particular reference to the Canadian federal environmental assessment regime.

Intended Learning Outcomes:
By the end of this course, students should be able to:

- Define the aims and objectives of environmental assessments, as well as key terms and concepts in EA
- Identify the role and relevance of EA as a potential venue that can contribute to sustainability;
- Describe the different steps and components of an EA process, particularly in Canada;
- Apply EA principles for best practices to case studies and critically analyze the strengths and weaknesses of environmental assessments; and
- Identify the important relationship between EAs and other environmental planning and management instruments (i.e., SEA, CEA, SA).
**Approach:**

Lectures will be used to provide an overview of key topics and also to highlight important themes. Key topics and themes will be elaborated on through in-class discussions and by regular attention to case studies. Assigned readings throughout the semester are critical for providing additional depth and breadth. Tests provide an opportunity for students to demonstrate their: understanding of key terms and concepts within the field of environmental assessment; ability to apply these to relevant examples; and, ability to link concepts and insights they are learning within the field of environmental assessment to broader environmental, social, political-economic issues.

**Website:** http://learn.uwaterloo.ca (LEARN, ERS 215)

You will need to access the course website frequently, as some of the course material will be made available and managed through LEARN (Desire2Learn).

**Required Textbook:**


Weekly readings are presented below (“Course Schedule”). Additional material will be presented in class and/or made available through the course website or library.

**Course and University Policies**

**Attendance:**

Attendance in class is HIGHLY RECOMMENDED, but it is at your discretion. There is often extra content in the notes displayed in class vs. the notes posted on the course webpage (e.g., discussion points or questions asked of the class, graphics-heavy images such as maps or diagrams), and **all in-class discussions are valid “testable” materials**. In addition, all A/V materials (e.g., DVDs screened in class) are valid, “testable” materials, so complete notes should be taken for each lecture and each video screened.

**Missed Tests:**

All tests are mandatory, and thus, every effort should be made to attend each test. The only exceptions to this are those students who have a valid medical reason, personal or family emergency, etc.:

1. Valid medical reason such as illness or accident (appropriate proof such as a Doctor’s note is required);
2. Personal or family emergency, death in the family, etc. (with suitable proof where possible);

If you know in advance that you will not be able to make a test, please contact the instructor **as far in advance as possible** to discuss alternatives.

**If you miss a test:**

1. Communicate to the instructor the reason why you missed the quiz.
2. IMPORTANT! As soon as possible, please obtain a *valid medical, counselor’s or other ‘proof of absence’ note* explaining the reason for your absence, degree of incapacitation, dates covered by the note, etc.
3. Please make a copy of this note and give the copy to your instructor by hand or scanned and sent by email to dmccarth@uwaterloo.ca.

**Note for students with disabilities:** The AccessAbility Office located in Needles Hall, Room 1132, 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 the AccessAbility Office at the beginning of each academic term.
Mental Health: The University of Waterloo, the Faculty of Environment and our Departments 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 (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:
Student needs 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.

EVALUATION:
Your final grade will be based on 3 in-class exams. The professor determines the content and establishes the grading rules for all assignments, tests, and any quizzes. The teaching assistants will assist the instructor with grading course work.

Tests will be 1-hour, in-class and will be the last hour of class time.

<table>
<thead>
<tr>
<th>Course Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Test #1 (in-class, October 1st)</td>
<td>25%</td>
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<tr>
<td>Test #2 (in-class, November 5th)</td>
<td>25%</td>
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<td>Test #3 (in-class, December 3rd)</td>
<td>25%</td>
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<tr>
<td>Briefing Note (due November 16th, by 11:59pm on LEARN)</td>
<td>25%</td>
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Information on using Waterloo LEARN
LEARN is a web-based course management system that enables instructors to manage course materials (posting of lecture notes, etc.), interact with their students (drop boxes for student submissions, on-line quizzes, discussion boards, course e-mail etc.), and provide feedback (grades, assignment comments etc.). The degree to which LEARN is utilized in a particular course is left to the discretion of the instructor and therefore, you may find a large variance in how LEARN is being used from one course to another.

Logging Into LEARN
Since LEARN is a web-based system, you will need a browser. Once you have started up your browser, type in the following URL: http://learn.uwaterloo.ca. Provide your Quest/WatIAM userid and password (case sensitive) to login. Once you have logged in, you should see a list of your LEARN courses under the Courses header bar. Clicking on the course name will take you to that course.

Multimedia Notes (DVDs, Videos, in-class internet-based videos, etc.).
Approximately 15% of course content is delivered through multi-media materials (DVDs, online audio or video clips), and ALL of this material is valid testing material. Therefore, each student should attend regularly and take comprehensive notes. If you miss a day when this material is shown, please arrange to obtain the notes from a classmate, and if possible, discuss these notes briefly with the note-taker. Most materials shown are the personal property of the instructor and some are available on the internet.

PowerPoint Viewer
The web addresses for Microsoft PowerPoint viewers (for those who do not have PowerPoint on their computers) is: http://www.microsoft.com/download/en/details.aspx?id=13
# Course Schedule (topics might span more than one class):

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
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<tbody>
<tr>
<td>Sept. 10th</td>
<td>Course Outline and Introduction to EA and EIA In Canada</td>
<td><strong>Readings:</strong> Course Syllabus</td>
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<td><strong>Chapter 1: Aims and Objectives of EIA</strong></td>
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<td>Sept. 17th</td>
<td>Recent Changes to EA in Canada – Guest Lecture by Dr. Bob Gibson</td>
<td><strong>Readings:</strong> Chapter 2: Overview of EIA in Canada</td>
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<td>Sept. 24th</td>
<td>Systems thinking and EA</td>
<td><strong>Readings:</strong></td>
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<td>Oct. 1st</td>
<td>The EA process I: • Screening</td>
<td><strong>Readings:</strong></td>
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<td>Chapter 4: Screening Procedures</td>
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<td>Oct. 8th</td>
<td>Fall Break</td>
<td>*No Class, No Office Hours</td>
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<td>Oct. 15th</td>
<td>The EA process II: • Scoping • Identifying and Predicting Impacts</td>
<td><strong>Readings:</strong></td>
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<td>Chapter 5: Scoping and Environmental Baseline Assessment</td>
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<td>Chapter 6: Predicting Environmental Impacts</td>
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<td>Oct. 22nd</td>
<td>The EA process III: • Methods used • Impact Significance</td>
<td><strong>Readings:</strong></td>
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<td>Chapter 3: Tools Supporting EIA Practice</td>
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<td>Chapter 8: Determining Impact Significance</td>
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<td>Oct. 29th</td>
<td>Public Participation</td>
<td><strong>Readings:</strong></td>
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<td>Chapter 10: Public Participation in EIA</td>
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<td>Week</td>
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<td>9</td>
<td>Nov. 12th</td>
<td>Cumulative Effects Assessment (CEA) And Indigenous issues and the Crown’s Duty to Consult</td>
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<td>10</td>
<td>Nov. 19th</td>
<td>A Policy-Maker’s Perspective on EA – Guest lecture by Elaine Feldman (former President of CEAA)</td>
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<td>11</td>
<td>Nov. 26th</td>
<td>Expert panel: Multiple perspectives on EA in Canada</td>
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ASSIGNMENT

The assignment is worth 25% of your final grade. You will write a briefing note to the Minister regarding improvements to the current CEAA (federal EA process).

- **IMPORTANT:** You should present your papers in an academic research paper format, based on adequate and appropriate reading and reflection, and it must acknowledge intellectual indebtedness through proper citations. Use the "Writing Effective Essays and Reports" booklet by Rob de Loë as guidance: [http://www.environment.uwaterloo.ca/u/rdeloe/writing_booklet/twopage_format.pdf](http://www.environment.uwaterloo.ca/u/rdeloe/writing_booklet/twopage_format.pdf) (also posted on LEARN)

**Required format for assignments:**

- Your assignment must have a plain title page with the title of your assignment, your name, course number (ERS 215), the date, your student number, and the term instructor's name.
- Include your name & student ID number on each page (inserting this into a ‘header’ is the easiest way to go!).
- Please number all pages
- Typed/word-processed, with 1” margins.
- Maps, diagrams and figures/tables are optional, but appreciated. If included, should be at the end of your assignment, starting on a separate page.
- You must use references to the relevant literature (preferably peer-reviewed) to support your arguments (use of course readings is suggested but other relevant references are required). The APA reference format should be used for all references, including websites (for info on using the APA style, see [http://www.okanagan.bc.ca/Assets/Departments+(Administration)/Library/PDFs/apa.pdf](http://www.okanagan.bc.ca/Assets/Departments+(Administration)/Library/PDFs/apa.pdf)

**Assignment – Briefing Note for the Minister**

In this individual assignment, you will prepare a briefing note suggesting how to improve the Canadian Environmental Assessment Act (CEAA) since the 2012 changes and keeping in mind the current CEAA review. The briefing note should be addressed to the Cabinet Minister (Minister of Environment and Climate Change). You should include at least 3 main points that should be addressed during the review of the current CEAA. Each of these points should be supported with reference to the relevant literature (this can and should include references to the course readings but evidence of research beyond the course readings in also required).

Use the "How to Write Briefing Notes" document and briefing note examples (LEARN) as guidance for assignment 1.

- **Length:** The maximum page length for this assignment is 3 pages (single-spaced)
- **Deadline:** Electronic copy (MS Word file): November 16th, 11:59 p.m. (LEARN dropbox).

**Assignment Grading:**

- Evaluation of assignments takes into account organization, structure, style and presentation, research and quality of analysis/critique, as well as proper referencing style and in-text citation. Writing quality and content are both considered in grading.
- Students are expected to present well organized and properly written work. Penalties of up to 20% may be applied in cases where writing quality, readability and/or clarity are considered inadequate.

**Late penalty:**

- All assignments are due on the date set by the professor. To be fair to students who hand in their assignment on time, late assignments will be penalized. Late assignments will be accepted up to one week after the due date with a penalty of 10% (i.e., 80% becomes 70%) except for unusual/documentated mitigating circumstances (see note below). Assignments will NOT be accepted after December 10th, 2018.
• Any requests for extension without penalty or for more than one week must be made in writing before the assignment due date. The instructor reserves the right to waive this deduction if the following prevents the student from handing in an assignment on time:
  1. Valid medical reason such as illness or accident (appropriate proof such as a Doctor’s note is required);
  2. Personal or family emergency (with suitable proof, when possible);
• Please ensure that you are diligent in backing up computer files of all assignments (different locations, hard drives, cloud, etc), as computer/disk failures, printer problems, etc., will not be considered a valid reason to waive the late assignment deduction.

Handling in your Assignments:
• You are responsible for making sure that your professor receives your work. Both assignments are to be submitted via LEARN dropbox using the course website.
• Lost or misplaced assignments: It is your responsibility to make more than one electronic copy of your work. Excuses are not accepted in the case of crashed computer and lost or misplaced work.

Academic Integrity:
In order to maintain a culture of academic integrity, members of the University of Waterloo are expected to promote honesty, trust, fairness, respect and responsibility. See the Office of Academic Integrity webpage for more information.

Discipline
A student is expected to know what constitutes academic integrity, to avoid committing academic offences, and to take responsibility for his/her actions. Check the Office of Academic Integrity for more information. A student who is unsure whether an action constitutes an offence, or who needs help in learning how to avoid offences (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. 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. For typical penalties check Guidelines for the Assessment of Penalties.

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. Read Policy 70 - Student Petitions and Grievances, Section 4. When in doubt, please be certain to contact the department’s administrative assistant who will provide further assistance.

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.

Note for Students with Disabilities
The AccessAbility Services office, located on the first floor of the Needles Hall extension (NH 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 the AS office at the beginning of each academic term.

University Policies: Plagiarism
Please familiarize yourself with the University of Waterloo’s policy dealing with plagiarism. Be especially careful when using materials from the internet and be aware that software available to instructors can be used to check student submissions for plagiarism. Plagiarism offences are normally treated quite seriously by the University and can result in significant penalties being assessed (e.g. failing grade on an assignment, repeating a course, suspension or expulsion).
**Definition of Plagiarism:**
“The act of presenting the ideas, words or other intellectual property of another as one’s own.” Source: University of Waterloo, Policy 71.

**Turnitin:** Plagiarism detection software (Turnitin) may be used to screen assignments in this course. This may be done to verify that use of all materials and sources in assignments is documented. Students will be given an option if they do not want to have their assignment screened by Turnitin. In the first week of the term, details will be provided about arrangements and alternatives for the use of Turnitin in this course.

**To Avoid Plagiarism**
The use of other people’s work **must be properly acknowledged and referenced** in all written material such as assignments, take-home examinations, essays, research papers, laboratory reports, work-term reports, design projects, statistical data, computer programs and research results. The properly acknowledged use of sources is an accepted and important part of scholarship. However, use of such material without complete and unambiguous acknowledgement is an offence under UW Policy 71.

**Quoting, paraphrasing, and summarizing** (source: [http://owl.english.purdue.edu/owl/resource/563/1/](http://owl.english.purdue.edu/owl/resource/563/1/))
These three ways of incorporating other writers’ work into your own writing differ according to the closeness of your writing to the source writing.

- **Quotations** must be identical to the original, using a narrow segment of the source. They must match the source document word for word and must be attributed to the original author with page number.
- **Paraphrasing** involves putting a passage from source material into your own words. A paraphrase must also be attributed to the original source. Paraphrased material is usually shorter than the original passage, taking a somewhat broader segment of the source and condensing it slightly.
- **Summarizing** involves putting the main idea(s) into your own words, including only the main point(s). Once again, it is necessary to attribute summarized ideas to the original source. Summaries are significantly shorter than the original and take a broad overview of the source material.

**Unclaimed Assignments**
Unclaimed 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.

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