Earth Sc 2WW3E
Water and the Environment
Course Outline Winter 2018

Instructor
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BSB 312
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Lectures
Tuesday 7:00-10:00pm

Course Description
Water and the Environment focuses on the environmental and societal issues related to water both globally and on a more local scale. The first half of the semester will cover the fundamentals of water and the importance in the environment. This will include topics such as the water cycle; water resources globally; water quality; anthropogenic impacts on water within Canada and globally; aquatic ecosystems and resources. The second part will cover the social issues relating to water and the future of water globally. Topics relating to issues of water scarcity and war; the economics of water; planning for the future of water and the issues related to water in Canada will be covered.

Course Objectives
By the end of the course students should have an increased understanding of both natural and anthropogenic impacts on water resources, the issues surrounding water scarcity, and quality on a local and a global scale. The aim of the course is to allow students to create and communicate informed opinions on complex issues related to water globally and specifically to Canadian examples.

Assessments
The course will consist of 5 online quizzes, one midterm and a final exam. The midterm will be completed in-class. The course will also include a final exam scheduled by the Office of the Registrar. The final exam will cover all lecture material and textbook reading. The final exam will be composed of multiple choice questions. A deferred final exam may not follow the same format.

Student Information Quiz 2%
Online Quizzes 30%
  5 quizzes at 6% each
Midterm 25%
Final Exam 43%

Online Quizzes
There will be five online quizzes following the schedule noted on the lecture schedule below. The quizzes will cover lecture material, additional readings and textbook
readings. These quizzes will be in a multiple choice format with 20-30 questions on each quiz.

Each quiz will be open from 12:00 p.m. (noon) on Wednesday of the week assigned until 5:00 p.m. Tuesday the following week (a period of 6 day). It is the responsibility of the student to be aware of the start and end dates of the quizzes.

Each quiz will have one attempt. There is no time limit for submission of the quiz and can be started and returned to throughout the 6 day period the quiz is open. The quiz must be submitted before the 5:00 p.m. Tuesday end time of the quiz.

Sources

Additional resources may be posted to Avenue to Learn course during the semester.

Lecture Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 9</td>
<td>Introduction to Water Issues</td>
<td>Student Information</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Quiz Begins</td>
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<tr>
<td>2</td>
<td>Jan 16</td>
<td>The Water Cycle and global warming</td>
<td>Quiz 1 Begins</td>
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<tr>
<td>3</td>
<td>Jan 23</td>
<td>Water quality and pollution</td>
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<td>4</td>
<td>Jan 30</td>
<td>Water balance tables</td>
<td>Quiz 2 Begins</td>
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<td>Water supply</td>
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<td>5</td>
<td>Feb 6</td>
<td>Water and Health</td>
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<tr>
<td>6</td>
<td>Feb 13</td>
<td>Midterm (in class)</td>
<td></td>
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<tr>
<td>7</td>
<td>Feb 20</td>
<td>READING WEEK</td>
<td></td>
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<tr>
<td>8</td>
<td>Feb 27</td>
<td>Water and War</td>
<td>Quiz 3 Begins</td>
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<td>9</td>
<td>Mar 6</td>
<td>The economics of water</td>
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<tr>
<td>10</td>
<td>Mar 13</td>
<td>Water scarcity and water demand planning</td>
<td>Quiz 4 Begins</td>
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<td>11</td>
<td>Mar 20</td>
<td>Water and Canada</td>
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<tr>
<td>12</td>
<td>Mar 27</td>
<td>The Great Lakes</td>
<td>Quiz 5 Begins</td>
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<tr>
<td>13</td>
<td>Apr 3</td>
<td>The future of water</td>
<td></td>
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Attendance and Emails Policy

Office hours will be held by the T.A. and the instructor to clarify content of the lectures. The time of office hours will be posted on avenue by the end of week 2 of the semester. Email should not be used to ask detailed questions (including asking what was discussed in lecture). It is the responsibility of the student to ensure that notes are complete and that notes are obtained for any missed lectures.
Emails will typically be responded to during working hours on weekdays and as schedules allow. In general, you should not expect to receive answers to emails in the evenings or on weekends. Emails sent 24 hours before or on the date of the final exam will not be answered.

For non-personal questions you are encouraged to use the avenue discussion board to ask your questions as any question you have will likely be shared by others. The instructor and T.A. will regularly check the discussion board.

To ensure that your emails are answered properly and in a timely manner you should include the course code in the subject line and your name and student ID need to be included in the email signature. Emails must be sent from your McMaster University email account. Emails that do not follow these guidelines will not be responded to.

**Missed or Late Work**

If you are absent from the university for a minor medical reason, lasting fewer than 5 days, you may report your absence, once per term, without documentation, using the McMaster Student Absence Form. Absences for a longer duration or for other reasons must be reported to your Faculty/Program office, with documentation, and relief from term work may not necessarily be granted.

When using the MSAF, report your absence to leer37@mcmaster.ca. You must then contact your instructor immediately (normally within 2 working days) by email at leer37@mcmaster.ca to learn what relief may be granted for the work you have missed, and relevant details such as revised deadlines, or time and location of a make-up evaluation. Please note that the MSAF may not be used for term work worth 25% or more, nor can it be used for the final examination. Please note: students who use the MSAF, but who do not contact the instructor within the 2 working days period, may not be granted any relief.

As online quizzes will be available for a 6-day period, MSAFs will **NOT** be accepted for missed quizzes. There will be no make-up midterms offered for this course. If either of the midterms is missed the grades will be added to the final exam with no MSAF required.

**Avenue to Learn**

URL: http://avenue.mcmaster.ca A2L is an online system that will be used in this class for communicating information relating to the course (e.g. lecture notes, etc.). To log in to A2L, use your MUGSI login and password. See the A2L home page above for more instructions if you need them. It is the student’s responsibility to check A2L regularly (i.e. AT LEAST twice a week) for updates.

Students should be aware that, when they access the electronic components of this course, private information such as first and last names, user names for the McMaster email accounts, and program affiliation may become apparent to all other students in the same course. The available information is dependent on the technology used. Continuation in this course will be
deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

If you encounter any technical problems with this service go to the following website for support: http://avenue.mcmaster.ca/help/. Please note that it is not the responsibility of the teaching staff of Earth Sc 2WW3 to assist you with A2L issues.

**Student Conduct**

Students’ behaviour in all aspects of this course should meet the standards of the McMaster University Student Code of Conduct. Any inappropriate behaviour directed against any of your colleagues, T.A, or the instructor will not be tolerated. Disruptive behaviour during lectures will also not be tolerated.

This also means that the A2L Discussion Board is an extension of the classroom. These spaces are to be considered inclusive and safe. Abuse, ridicule, slander, inappropriate language, and discrimination towards the instructor, teaching staff, and other students will not be tolerated in any capacity. This may lead to various disciplinary measures including, but not limited to, removal of access privileges to the A2L for Earth Sc 2WW3E.

**Academic Dishonesty**

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: “Grade of F assigned for academic dishonesty”), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at http://www.mcmaster.ca/academicintegrity

The following illustrates only three forms of academic dishonesty:

1. Plagiarism, e.g. the submission of work that is not one’s own or for which other credit has been obtained.
2. Improper collaboration in group work.
3. Copying or using unauthorized aids in tests and examinations.

**Acknowledgement of Course Policies**
Your registration and continuous participation (e.g. on A2L, in the classroom, etc.) to the various learning activities of GEOG 3RW3 will be considered to be an implicit acknowledgement of the course policies outlined above, or of any other that may be announced during lecture and/or on A2L. **It is your responsibility to read this course outline, to familiarize yourself with the course policies and to act accordingly.** Lack of awareness of the course policies cannot be invoked at any point during this course for failure to meet them. It is your responsibility to ask for clarification on any policies that you do not understand.

The instructor reserves the right to modify elements of the course and will notify students accordingly (in class and post any changes to the course A2L). **The lecture schedule is only a guideline and may be modified during the course of the class.**

*The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.*