SCHOOL OF ENVIRONMENT, ENTERPRISE AND DEVELOPMENT

FACULTY OF ENVIRONMENT

UNIVERSITY OF WATERLOO

INDEV 608/PACS 652

Water and Security

Course Instructor: Larry Swatuk

Class Time: Wed 11h30-14h20

Class Location: HH 227

Office hours: Wed 14h30-16h30 and by appointment

Office Location: EV3-4253

E-mail: lswatuk@uwaterloo.ca

Note: The guidelines in this syllabus are subject to change. Refer to the course website for updates.

Overview:

This course is meant to serve as an introduction to issues – theoretical, conceptual, practical – of water and security in the world with a particular focus on the global South. Conventional wisdom would have us believe that the world is likely to face ‘water wars’ in the not-too-distant future. This scenario is dependent upon a rather simplistic equation: since freshwater is a scarce and constant resource, and since global populations are ever increasing, then water (and other resource) shortages are likely to cause (violent) conflict over time. While many regard this statement as axiomatic, the ‘reality’ of these hypothesised ‘water wars’ is still to be demonstrated. Nevertheless, the fact that many people – indeed, many powerful actors in the global political economic system – are thinking and beginning to take policy decisions along these terms makes it important for us to consider these issues carefully.

Impending conflict or not, the fact of scarce resources raises a number of issues for consideration. For example, how much water is there and where is it to be found? To what uses is this water being put? How are these uses determined? Who benefits and who suffers from existing water resource use patterns? Whose security is assured and whose is threatened by current patterns of supply and demand? How would this balance alter if current supply/demand patterns were altered? What may be done to assure that in future there is water security for all?

How one answers the last question depends largely on where one sits in the present social, political and economic order. For, where one sits in this order determines to a significant degree what one thinks –
about security, justice, equality – and hence the ‘relevant’ theoretical and practical frameworks for achieving and managing ‘security’.

In this course there is particular focus on discourse and narratives of water in/and/or for security with an emphasis on challenging dominant narratives and conventional wisdoms. The aim of the course is to equip the student with the necessary tools for more economically efficient, socially equitable and environmentally sustainable water policy. It highlights a number of key issues: how is water embedded in conflict and cooperation particularly at the inter-state level? How should we approach water security? How does water contribute to food and household security? Is access to water best addressed by treating water as a human right or an economic good? What are the appropriate institutions for ensuring water security?

Objectives:

- To provide students with the necessary skills to inform appropriate policy approaches to water security
- To provide a nuanced understanding of the role and place of water in the built and natural worlds
- To provide a nuanced understanding of key concepts such as security, development, conflict and cooperation
- To use the material of the course to teach students how to write for publication and how to engage with policy makers on important issues related to water and security

Assessment:

- Essay Step 1: 5% (due 6 Feb)
- Essay Step 2: 5% (due 13 March)
- Group presentation: 10% (TBD)
- Essay Step 3: 40% (due 5 April)
- Participation: 20%
- Policy Brief: 20% (due 5 April)

INTRODUCTION


Read: L. Swatuk, background document.


**Week 2: How much water for what, for whom and why? (Lectures/Roundtable discussions)**

Read: Swatuk, Water in Southern Africa, Chapter 3

Read: Savenije, H.H.G., 2002. ‘Why water is not an ordinary good, or why the girl is special’, *Physics and Chemistry of the Earth* vol. 27, pp. 741-744.


**Week 3: Water Security (Take Home Assignment)**

Watch my lecture on either YouTube:
https://www.youtube.com/watch?v=FN6sq6FIQQA&feature=youtu.be

View the slides on learn


Read: Mark Zeitoun et al, 2016.

Read: Grey et al, 2013.

**Week 4: Paper Preparation Week**

*Note: Students are expected to devote on average 8-10 hours per week on their course material. I am expecting that you will use this amount of time to prepare Step 1 and associated materials for this week. The completed assignment is due in class in Week 5.*

**Week 5: Perspectives: Water as a Human Right or Economic Good?**


Suggested: WWDR2, chapter 12.

**Week 5: Governing Water**


Read: Dublin Principles; UN Convention
Read: McCaffrey et al

Suggested: WWDR2, Chapter 2 (downloadable from:

Weeks 6-7: Managing Water


Weeks 8-9: Transboundary Waters


Read: UN World Water Development Report 2, Chapter 11 (downloadable from:


Weeks 10-12: Conflict and Cooperation

Read: (i) Swatuk; (ii) Salame, Swatuk and van der Zaag; (iii) Swatuk, Amakali and Jembere; (iv) Conca (ch. 6)


Multimedia: UNESCO-IHE, *Water: the Drop of Life* one or more short videos on Atatürk Dam (4:33); Okavango River (4:40); Jordan River (7:19); Aswan Dam (5:09); Tajo Segura Spain (4:39); Equador Rain Forest (5:48); Namib Desert (2:44); Rift Valley (2:18)

**Pedagogy, Attendance and Participation**

This course combines several teaching elements: (i) lectures followed by Q and A and general discussion; (ii) short video followed by deconstruction of the video; (iii) seminar style discussion of particular readings; and (iv) publication-oriented writing workshop. Participation in class activities is an integral aspect of this course and constitutes 20% of your overall grade. This requires you to attend all classes, do your weekly readings and engage in critical discussion of the materials. Grades will be awarded on the frequency of attendance and quality of student participation in class. I recognize that some students may not be comfortable speaking in large group settings and as a result contribution in small group discussions is encouraged. Attendance will be taken each day and students who absent themselves without any valid reason will not receive any marks for attendance. Please note that the readings have been carefully selected and have been ordered logically, so you should read them one after the other as they appear in the course outline. The seminar should then focus on each of the readings on its own: (i) what is the reading about? (ii) what are the key ideas s/he is putting forward? (iii) what are the key concepts the author(s) uses/develops? (iv) what are the key premises of the author’s argument? (v) what evidence does the author bring forward in support of the argument? You can weigh in with a critique of the reading. Please refer to the Class Participation/Discussion Rubric below.
Participation/Discussion Rubric Using Numbered Grading: total marks possible = 20 (one-half of grade assigned by student/one-half of grade assigned by instructor)

<table>
<thead>
<tr>
<th>Criteria</th>
<th>5</th>
<th>4</th>
<th>3</th>
<th>2</th>
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<tr>
<td><strong>Discussion Interaction</strong></td>
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<td>(how student acts in the discussion forum)</td>
<td>Student interacts with others in a respectful way, supports the views of others, and comments or critiques the ideas of others in a constructive way</td>
<td>Student interacts with others in a respectful way, usually supports the view of others but may have some difficulty when his or her own ideas are challenged</td>
<td>Student participates but interacts with others in a consistently disrespectful way, often argues or attacks others during discussion, and does not respect the ideas of others</td>
<td>Student does not participate at all</td>
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<td><strong>Conversation Leadership</strong></td>
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<td>(how student acts as a leader in the discussion forum)</td>
<td>Student usually leads the discussion and encourages others to participate; student provides feedback to others using constructive criticism or questions</td>
<td>Student leads the discussion and encourages others to join the discussion but is not always successful</td>
<td>Student rarely leads discussion and when he or she does lead, the student prefers his or her own views and does not include the views of others</td>
<td>Student follows the discussion but does not lead; student may disrupt conversations or stop the flow of discussion</td>
<td>Student does not participate at all</td>
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<tr>
<td><strong>Development of Argument or Viewpoint</strong></td>
<td>Student’s comments or arguments are well formed, logical and supported by course material; student makes valuable contributions to the course discussion</td>
<td>Student’s comments are well formed, logical and mostly supported by course material; student makes valuable contributions to the course discussion</td>
<td>Student’s comments are opinions that are not backed up with evidence from the course; student’s comments demonstrate confusion or a misunderstanding of the course material</td>
<td>Student’s comments or arguments do not make logical sense and are not backed up with evidence; student criticizes the readings without explaining why; others cannot follow along</td>
<td>Student does not participate at all</td>
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<tr>
<td>Discussion Focus (student follows along with the discussion)</td>
<td>Student always follows the discussion, adds valuable information, and keeps the discussion focused on the topic</td>
<td>Student usually follows the discussion, often adds valuable information, usually keeps the discussion focused on the topic, and asks questions when unsure</td>
<td>Student often does not follow the discussion properly and may repeat information already discussed; student rarely adds valuable information</td>
<td>Student participates but does not follow the discussion at all and adds irrelevant information to the discussion</td>
<td>Student does not participate at all</td>
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WINTER 2019
INDEV 608 ASSIGNMENTS FOR 2019

GROUP PRESENTATION

The presentation will be linked to your term paper. The presentation will be an agreed in-class date following submission of Step 2. Students will be expected to submit a powerpoint presentation on the Monday prior to presentation on the following day. The powerpoint should be no more than 7 slides in total, including a cover slide and a final, bibliographic sources slide. This means 5 content slides. The presentation must be no more than 10 minutes in length.

POLICY BRIEF

Please refer to this web-link regarding how to prepare a Policy Brief:
https://www.idrc.ca/sites/default/files/idrcpolicybrieftoolkit.pdf

The Policy Brief is an individual assignment that will derive directly from your research as it relates to the term paper. It is to be a total of 4 pages in length and should contain no more than 1500 words.

ESSAY:

Step 1:

This first step is designed to help you identify a topic, initiate your research, and delve into it by identifying sources, reading them, thinking about them, and then telling us why you think they will help you in putting your story together. To achieve this, you must do the following:

- Provide a title for your paper;
- Provide a thesis statement regarding the topic;
- List 10 academic sources (i.e. books, peer-reviewed journal articles, government/intergovernmental reports/documents) that you will use in preparing your essay; and
- Write a brief precis -- i.e. 3-5 sentences -- explaining the particular value of 3 of these 10 sources: why is it that these 3 are particularly useful for your essay?

Step 2:

The second step is designed to ensure that you have an appropriate structure to your essay, that it flows logically from beginning to end, and that the supporting evidence is appropriate. To achieve this, you must do the following:
- Provide a refined title and thesis statement;
- Provide relevant topic headings (see peer-reviewed journal article structure for ideas);
- Write three or four sentences under each topic heading, outlining what information will appear here and why, citing links to the sources that you will use in gathering the information shown here;
- Provide a refined bibliography

**Step 3:**

The third and final step is completion and submission of your essay. The anticipated length is between 5000-8000 words (20-25 pages, double-spaced, typed, 12pt font), inclusive of all materials.

A first class essay reflects the format of a first-class peer-reviewed journal article. So, look at the format of your favorite article and try to follow that: appropriate title; appropriate headings and sub-headings; well-constructed content that is sufficient in relation to the essay’s stated purpose; appropriate use of footnotes or endnotes; a strong bibliography reflecting the depth of research and understanding that you bring to the topic area; an essay free of grammatical errors and errors of style and syntax; something you are proud of and that anyone would enjoy reading.

Please see the essay rubric below.
IND 608 ESSAY RUBRIC WINTER 2019

NAME:

MARKED BY:

CONTENT: Value 80%

<table>
<thead>
<tr>
<th>VALUE</th>
<th>1 INADEQUATE (0.30)</th>
<th>2 GOOD (0.60)</th>
<th>3 VERY GOOD (0.75)</th>
<th>4 EXCELLENT (0.85)</th>
<th>5 OUTSTANDING (0.95)</th>
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<tbody>
<tr>
<td>Argument (5%)</td>
<td>The paper takes a clear position on a well-articulated issue</td>
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<td>Thesis Statement (5%)</td>
<td>The thesis statement is clear and coherent</td>
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<td>Relevance and sufficiency (20%)</td>
<td>The paper focuses on the topic and covers significant areas sufficiently to support the argument</td>
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<td>Analysis (40%)</td>
<td>The analysis is supported by a strong body of evidence</td>
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<td>Clarity (5%)</td>
<td>The argument and analysis are logically laid out and easily followed</td>
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<td>Research (5%)</td>
<td>The paper uses a good variety of academic sources</td>
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FORM: Value 20%

<table>
<thead>
<tr>
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<th>5 OUTSTANDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organisation (5%)</td>
<td>The essay is well-organised in terms of its basic shape, use of headings and sub-headings, use of adequate and proper footnotes or endnotes, and bibliography</td>
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<tr>
<td>Paragraph construction (5%)</td>
<td>The paper flows smoothly with the argument logically building from beginning to end</td>
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<td>Grammar, spelling, syntax (5%)</td>
<td>The paper is free of errors of grammar, spelling and syntax</td>
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<tr>
<td>Overall presentation (5%)</td>
<td>The paper’s shape and form mirrors research papers as published in scientific journals</td>
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GRADE:
Email policy

If you’d like to contact me outside of my scheduled office hours, please direct all course-related questions to my uwaterloo email address at lswatuk@uwaterloo.ca. I will respond to your emails as promptly as possible. However, please be advised that I usually receive many emails each day that require a response. Therefore, it may take me a day or two to reply to your message. Note also that email is the official channel of communication between the University and its students. You are required to check your uwaterloo.ca email account regularly; I recommend that you check for course-related emails at least twice a week. If you use another email service (e.g., gmail), it is your responsibility to ensure that mail sent to your uwaterloo.ca account is forwarded to your other account.

Submission of assignments

Check the requirements in the schedule above regarding submission of electronic and/or hard copies for each assignment. Hard copies (with double-sided printing) are to be submitted to me during class.

By submitting an assignment for this course, you are agreeing to the following:

You have properly referenced and footnoted all ideas, words or other intellectual property from other sources used in the completion of this assignment.

You have included a proper bibliography, which includes acknowledgement of all sources used to complete this assignment.

The assignment was completed by your own efforts. You did not collaborate with any other person for ideas or answers (with the exception of group projects)

This is the first time you have submitted this assignment or essay (either partially or entirely) for academic evaluation.

Late policy: You are expected to take account of the possibility of computer or printer failure in planning your time. Emailed or faxed assignments will not be accepted. The penalty for late assignments is 5% of the total possible mark per day, including weekends and holidays. I will not accept assignments more than 5 days after the due date unless we have a prior arrangement.

When You Cannot Meet a Course Requirement Due to Illness or Other Reasons: There will be no unpenalized extensions on assignments except for illness, severe personal extenuating circumstances, or weather emergencies. When you find yourself unable to meet a course requirement because of medical, compassionate or other reasons, please advise me in writing by ACE email; make sure to include your full name in your message. Where possible, you must contact me in advance of the assignment due date, but otherwise as soon as possible after the due date. As a rule, you must provide appropriate documentation, for example, a note from your doctor indicating the dates during which you were ill, and describing the severity of your illness. Manage your time carefully. Pressure of work alone is not an acceptable reason for seeking an extension without penalty.
University policies

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.

Using UW-LEARN course website: See http://uwace.uwaterloo.ca/ to sign on to UW-ACE. In case of difficulties, contact uwacehelp@ist.uwaterloo.ca.

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. www.uwaterloo.ca/academicintegrity/

All students are encouraged to visit the on-line tutorial at http://www.lib.uwaterloo.ca/ait/(see ‘Check your understanding’) to learn more about what constitutes an academic offence.

Note for students with disabilities: The Office for Persons with Disabilities (OPD), 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 OPD at the beginning of each academic term.

Religious Observances: Please 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. Read 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.

Discipline: A student is expected to know what constitutes academic integrity, to avoid committing academic offence, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs 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. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline, www.adm.uwaterloo.ca/infosec/Policies/policy71.htm. For typical penalties, check Guidelines for Assessment of Penalties, www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm

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
Consequences of Academic Offences:

Students are 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, TA, academic advisor, or the Undergraduate Associate Dean.

For information on categories of offenses and types of penalties, students should refer to Policy #71, Student Academic Discipline, [http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy71.htm)

Within FES, those committing academic offences (e.g. cheating, plagiarism) will be placed on disciplinary probation and will be subject to penalties which may include a grade of 0 on affected course elements, 0 on the course, suspension, and expulsion.

Students who believe that they have been wrongfully or unjustly penalized have the right to grieve; refer to Policy #70, Student Grievance, [http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm](http://www.adm.uwaterloo.ca/infosec/Policies/policy70.htm)