

**International Summer School on the Geopolitics of Energy & Natural Resources**  
**Fifth Annual Edition: May 14-19, 2018 – Université Laval, Québec City**

**PPOL 611.14 – Globalization and Natural Resources**

**Course Outline**

<b>Course:</b>	PPOL 611.14 Globalization and Natural Resources – <i>the 2018 theme is on Water as a natural resource</i>	<b>Term:</b>	Spring 2018 Special Block Week May 14–19, 2018
<b>Date &amp; time:</b>	Monday to Sat, May 14-19 2018, from 8h30 – 17h00 daily	<b>Section:</b>	01
<b>Instructor:</b>	Dr. Jean-Sébastien Rioux <i>Various leading experts and professors also will be lecturing</i>	<b>Place:</b>	Université Laval, Québec City
<b>Office:</b>	Downtown Campus meeting room	<b>Telephone:</b>	403-512-9277
<b>Office Hours:</b>	By appointment	<b>E-mail:</b>	<a href="mailto:jsrioux@ucalgary.ca">jsrioux@ucalgary.ca</a>

**Course Materials:**

- **Required:** David JC MacKay, 2009. *Sustainable Energy – Without the Hot Air*. Cambridge, UK: UIT Cambridge. Free download available: [www.withouthotair.com](http://www.withouthotair.com)
- **Recommended:** Prentice, Jim and Jean-Sébastien Rioux, 2017. *Triple Crown: Winning Canada's Energy Future*. Toronto: HarperCollins. (Order online or contact your instructor.)
- The syllabus and course website contain the list of specific readings for each session. All readings are mandatory and subject to examination during the final exam. We will also have a shared drive set up for the course as lecture notes are made available by the speakers.

**Course Description:**

The Institute for Advanced International Studies, *Hautes Études Internationales (HEI)* at Université Laval and The School of Public Policy (SPP) together established an annual global summer school focused on the geopolitics of natural resources. Bringing together leading experts, this joint effort results in an intensive week of discussions of global issues – political, economic, environmental and social. Participants analyze the challenges and obstacles related to

the management of natural resources against a backdrop of profound geopolitical changes. Each year a new theme is selected and **the 2018 issues will focus on the theme “Seas and Rivers: Water and the Global Resource Economy.”**

At the end of this summer program, participants will be able to:

- Grasp the basic concepts of a geopolitical analysis of natural resources and better understand the changes in the international environment, their consequences for North America, and how Canadian interests will be affected;
- Understand how natural resources are managed now (policies and programs) and how such mechanisms evolve under the influence of geopolitical trends;
- Identify and understand the current social, environmental, financial, economic and technological challenges, such as problems related to extraction, transportation and legal, fiscal and regulatory frameworks.

Natural resources are not just commercial products; there has always been a close correlation between the way countries develop and wield political influence on the international scene and how they manage their resources, and the extent to which they depend on raw materials. The geostrategic issue of natural resources – continued prosperity in a peaceful and sustainable world – is therefore of prime importance. But the global economy evolves and global trends can be contradictory: natural resources are in greater supply yet global growth is slowing, and production costs and the risks related to geopolitical factors are on the rise. The challenges of climate change and biodiversity are increasing; population growth and an emerging middle class are swelling global demand. Citizens are becoming more concerned, and industries are urging governments to progress from exploration to exploitation and make transportation and global trade easier. The summer school will give participants a clear picture of the new global framework surrounding natural resources. As a result, they will be able to distinguish between events, contexts, power struggles, territorial conflicts and real structural changes.

### Course Objectives:

The intent is to draw participants and speakers from across Canada to explore the geopolitics of natural resources and how various political, commercial and societal forces – including environmental concerns – are shaping the future of these commodities. Through the assigned readings and lectures by the best experts in Canada and around the world, site visits and networking opportunities, participants will have an increased understanding of the forces at play.

Moreover, we will be recruiting students from across Canada and this course will lead to a better understanding of how these issues are viewed by peers from other provinces. We also are

recruiting mid-level civil servants and Industry practitioners and therefore more viewpoints will be shared amongst the participants.

### Travel:

Students are required to travel to Québec City. We will ideally travel as a group and arrive on Sunday, May 13<sup>th</sup>. We will all be staying in the dorm rooms, which have proven quite adequate in the past. Please note that while The School and Université Laval are actively raising funds to hopefully cover some of the costs, students will have to prepare to cover some of their costs. Government Budgets normally are finalized in February or March, so we will know by the end of March what the financial situation is and the instructor will communicate with students.

**Grade Determination & Final Examination:** Your grade will be determined by three factors:

1. Attendance and active participation in class (25%): Each day of perfect attendance and *active* participation is worth 2 points, for a total of 10 points, and short written “journals” summarizing key concepts and readings will be worth a further 15 points.
2. Your group project on the policy simulation exercise (30%): There will be a group experiential learning exercise where a scenario will be presented and you will have to work through a case. Students taking this course for credit will have to submit their written work for this exercises and it will count for 30 points.
3. Final examination (45%): A take-home final examination will be due one week after the course, on a date to be assigned later. You will be asked to write a series of essays totalling approximately 3,000 words on key learnings and readings from the various speakers.

Further details will be provided in the syllabus to be distributed the week before classes begin.

### Draft class schedule:

Monday May 14	<b>Introductory day on concepts and definitions: hydrology and water management</b> <u>Lectures/presentations</u> on key concepts from 8:30am to 5:00pm
Tuesday May 15	<b>Theme: Subsurface water, agricultural and industrial uses of water</b> <u>Lectures/presentations</u> on key concepts from 8:30am to 5:00pm - NOTE: Introduction to the simulation exercise (J-S Rioux and Gaétan Caron, SPP)
Wednesday May 16	<b>Theme: Legal and Indigenous issues regarding water</b> - <u>Lectures/presentations</u> on key concepts from 8:30am to 5:00pm.
Thursday May 17	<b>Field trip: visit a hydroelectricity dam and group work on the policy simulation</b> - FIELD TRIP – Visit of the Innergex hydroelectricity dam in Charny, QC

- Preparation time for group simulation

Friday **Theme: Water and commerce – aquaculture, tourism and transportation**  
May 18 - Lectures/presentations on key concepts from 8:30am to 5:00pm

Saturday **AM: Final simulation exercise**  
May 19 Detailed description and instructions to be provided in class on Tuesday, May 15, and students will prepare in groups during assigned class times. The exercise will simulate a Parliamentary Commission on a water issue to be unveiled in class.

**Monday FINAL EXAM DUE**  
**May 28 (TBD)** Take-Home exam will be sent prior and students will have 72 hours to write it.

**Grading:** Letter grades as described in the Faculty of Graduate Studies Calendar (see section E.1 of Calendar online) will be given for all elements of grade determination noted above. The course grade will be determined based on a weighted average of those grades according to the percentages shown above. In the event that elements are marked on a numerical (percentage) basis, they will be converted to letter grades. As a guide to determining standing, the following letter grade equivalences will generally apply:

A+	97-100	B	75-79	C-	60-62
A	90-96	B-	70-74	D+	55-59
A-	85-89	C+	67-69	D	50-54
B+	80-84	C	63-66	F	0-49

### Important Notes:

- The School of Public Policy expects the highest standards of professional conduct by students, faculty and staff. Abusive or disrespectful behavior will not be tolerated. This includes any expression of prejudice in any of its forms.
- It is the student's responsibility to be fully aware of the academic regulations outlined in the University Of Calgary Faculty Of Graduate Studies Calendar. Provisions regarding Student Misconduct (plagiarism, cheating and other academic misconduct) will be strictly enforced. Please review the University of Calgary's Regulations on Plagiarism, Cheating and Other Academic Misconduct, online: <http://www.ucalgary.ca/pubs/calendar/current/k-2.html>
- Students seeking reappraisal of a piece of graded term work (term paper, essay, etc.) should discuss their work with the Instructor *within fifteen days* of the work being returned to the class.
- Examinations will not be given prior to the scheduled date.
- It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Student Accessibility Services, please contact their office at 220-8237. Students who have not registered with the Student Accessibility Services are not eligible for formal academic

accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course. The Student Accessibility Services website is here: <http://www.ucalgary.ca/access/>

- All material used in this course is for the sole use of the individual and should not be recopied in either print or digital format. For copyright guidelines, including those relating to photocopying and electronic copies, please refer to the Association of Universities and Colleges of Canada (AUCC) fair dealing guidelines.  
<http://library.ucalgary.ca/copyright/fair-dealing>
- The University of Calgary complies with the requirements of the *Freedom of Information and Privacy Act*. The University's policy on the sharing of student information with third parties can be found here: <http://www.ucalgary.ca/legalservices/files/legalservices/pg-pi-of-students-to-3rd-parties.pdf>. The University's policy on the sharing of student information with the subject can be found here: <http://www.ucalgary.ca/legalservices/files/legalservices/pg-pi-of-student-to-subject.pdf>
- In the event of an emergency, students may be required to evacuate the building. If evacuation is ordered, follow these procedures:
  - Stay calm, do not rush, and do not panic.
  - Safely stop your work.
  - Gather your personal belongings if it is safe to do so. (keys, purses, jackets, cell phones, etc. It may be hours before you are allowed back in the building.)
  - If safe, close your office door and window, but do not lock them.
  - If directed by wardens, follow their instructions.
  - Use the closest emergency exit. Do not use the elevator.
  - Proceed to the designated Emergency Assembly point in front of the Holiday Inn on 8<sup>th</sup> avenue to the west of the Downtown Campus.
  - Do not re-enter the building or work area until you have been advised by emergency responders that it is safe to do so.

Graduate Students' Union Vice-President, Academic

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Emergency Assembly Point

Holiday Inn Lobby (weather permitting)

1020 8<sup>th</sup> Avenue SW



Calgary, Alberta T2P 1J2  
Or remain at nearest exit point

Safewalk / Campus Security: 220-5333

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A handwritten signature in black ink, which appears to read 'Robert Mansell'.