SOCY 1501/EESC 1501 Global Implications of Climate Change

Lecture: Mon, Wed, Fri, 1 pm – 1:50 pm, Stokes 195S
POD: Tues 6 – 7 pm, Stokes 195S
Labs: Tues(SOCY)/Thurs (EESC): 10:30 am–11:45 am; 12 pm –1:15 pm, Stokes 105S

Professor Brian J. Gareau, PhD
Office: McGuinn 412
Office hours: Fri, 10:00 am – 12:00 pm

Professor Tara Pisani Gareau, PhD
Office: Devlin 203A
Office hours: Wed, 10:00 am – 12:00pm

Teaching Assistants: Nikki Biller (billern@bc.edu) (SOCY 1502-02, EESC 1502-02); Daniel Garcia (SOCY1502-01) (garcia@bc.edu); Xiaorui Huang (huangxl@bc.edu) (EESC1502-01)

POD Leaders: Alex Alvarado; Courtney Cameron; Liza DeGenring; Bradford Gerber; Christie Merino; Anxhela Mile; Austin Mitchell; Sarah Moore; Katherine Sargent; Sultana Seban-Sumner

Course Description
Climate change is one of the defining issues of our time. Decisive and swift action to mitigate carbon emissions is needed in order to prevent catastrophic events and unhealthy environments for future generations. Societies worldwide will need to adapt to a new environmental reality. However, the causes, effects, and costs of climate change are not equally distributed, which raises questions about responsibility and justice. This course will encourage critical engagement with and personal reflection on these important issues, covering the science behind climate change, the use of different energy sources and their impact on carbon emissions, and the different roles of governments, businesses, religious communities, and individuals for enacting (and preventing) ambitious solutions to climate change.

Course Objectives
1. Understand climate science including the balance of energy on earth, the greenhouse effect, the carbon and water cycles, and the natural variations in climate and the methods for determining historical atmospheric carbon dioxide levels.
2. Examine the connection between human activity, energy use, and population growth and the rise in greenhouse gas emissions.
3. Demonstrate the ability to apply both earth science and sociology disciplines to the study of climate change as a complex planetary process with roots in human behavior and industrial development and solutions in policy that scale from the local to global.
4. Critically analyze and evaluate the process of global cooperation for the mitigation of carbon emissions.
5. Demonstrate the critical, mathematical, informational, analytic, expressive, and creative skills that are essential tools for solving complex problems.
6. Reflect on how knowledge of climate change and its impacts affects you in your daily life, as a scholar, and a moral citizen of the planet.
7. Be conversant with and able to discuss intelligently climate change causes, impacts, and solutions.

Last Updated August 31, 2015
This is a Core Pilot Course: To fulfill the University’s Core Curriculum requirement, undergraduates must complete 15 three-credit courses, which they may select from a wide variety of offerings across the academic disciplines. For 2015–16, Boston College is introducing new interdisciplinary courses, open only to first-year students, that will help satisfy the CORE REQUIREMENTS. These pilot courses, categorized as either “COMPLEX PROBLEMS” courses or “ENDURING QUESTIONS” courses, will be taught collaboratively by two faculty members from different fields. Global Implications of Climate Change satisfies requirements for 1 course in Social Science and 1 in Natural Science.

Course Materials
- Composition notebook, marble wide ruled (100 pages) for keeping a journal.
- Electronic readings (pdfs) are posted on the course Canvas site.
- All laboratory assignments are posted and graded on Canvas.
- Download the application, “TopHat” on any device (phone, tablet, or computer). You will use TopHat for electronically responding to questions in class.

Grading Criteria

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Midterm exam 1</td>
<td>15%</td>
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<tr>
<td>Midterm exam 2</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Laboratory assignments</td>
<td>30%</td>
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<tr>
<td>POD Journal</td>
<td>10%</td>
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<tr>
<td>Participation</td>
<td>10%</td>
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In Class Examinations (50%)
There will be three in class examinations: Midterm exam 1 (Mon., Oct 5) will be based on material covered in unit 1; Midterm exam 2 (Fri, Nov. 6) will be based on material covered in unit 2; and the final exam will be cumulative. Exams will use a variety of question formats (multiple choice, T/F, fill in the blank, short answer, and short essay) to evaluate how well you are able to achieve course objectives 1-4.

Laboratory assignments (30%)
Laboratory assignments are geared toward developing your critical, mathematical, informational, analytic, expressive, and creative skills to solve complex problems. Each lab assignment will address a central question through analysis of the literature and available data and writing up your findings. Guidelines for each lab and any associated materials are posted on Canvas. Laboratory assignments are to be submitted on Canvas as a Word document or pdf.

Purposeful Ongoing Discussion (POD) journal (10%)
You will keep a journal for documenting your responses to and questions about the readings and class activities. Your POD section leaders will provide you with a question or assignment to reflect on each week. You will be expected to bring your journal to your POD section.

Participation (10%)
Participation in class lectures, labs and POD sections via attendance, asking questions, providing thoughtful comments, and engaging in class activities, is an important way to gain fluency and comfort in discussing climate change causes, impacts, and solutions.

Last Updated August 31, 2015
If you are a student with a documented disability seeking reasonable accommodations in this course, please contact Kathy Duggan, (617) 552-8093, dugganka@bc.edu, at the Connors Family Learning Center regarding learning disabilities and ADHD, or Paulette Durrett, (617) 552-3470, paulette.durrett@bc.edu, in the Disability Services Office regarding all other types of disabilities, including temporary disabilities. Advance notice and appropriate documentation are required for accommodations.

BC Statement on Academic Integrity
“The pursuit of knowledge can proceed only when scholars take responsibility and receive credit for their work. Recognition of individual contributions to knowledge and of the intellectual property of others builds trust within the university and encourages the sharing of ideas that is essential to scholarship. Similarly, the educational process requires that individuals present their own ideas and insights for evaluation, critique, and eventual reformulation. Presentation of others' work as one's own is not only intellectual dishonesty, but also undermines the educational process.” Please review the standards on academic integrity at the website: https://www.bc.edu/schools/cas/polisci/integrity.html

SCHEDULE

UNIT 1: Climate science, anthropogenic influences, and environmental ethics

<table>
<thead>
<tr>
<th>TOPIC</th>
<th>ASSIGNMENT</th>
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<tbody>
<tr>
<td>UNIT 1: Climate science, anthropogenic influences, and environmental ethics</td>
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<tr>
<td><strong>Week 1</strong></td>
<td>Introduction to course, what the science tells us</td>
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<tr>
<td>Mon</td>
<td>31-Aug 1pm</td>
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<tr>
<td>Tues</td>
<td>1-Sep 6pm</td>
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<tr>
<td>Wed</td>
<td>2-Sep 1pm</td>
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<tr>
<td>Fri</td>
<td>4-Sep 1pm</td>
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<tr>
<td>Lab Section</td>
<td>10:30am; 12pm</td>
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**Week 2** | Human influences | |
| Mon | 7-Sep | NO CLASS—LABOR DAY |
| Tues | 8-Sep 6pm | POD |
| Wed | 9-Sep 1pm | Evidence for climate change |
| Fri | 11-Sep 1pm | Anthropogenic influence on climate |
| Lab Section | 10:30am; 12pm | (1) Communicating climate change to society continued |

**Week 3** | Global impacts | |
| Mon | 14-Sep 1pm | Rising sea levels |
| Tues | 15-Sep 6pm | POD |
| Wed | 16-Sep 1pm | Impacts on communities |
| Fri | 18-Sep 1pm | Levels and impacts |
| Lab Section | 10:30am; 12pm | (2) How do scientists project future climate? |

Last Updated August 31, 2015
### Week 4

**Why do people deny that the climate is changing?**

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>21-Sep</td>
<td>1pm</td>
<td>What do we know about climate change now?</td>
<td>Fletcher Ch 7</td>
</tr>
<tr>
<td>Tues</td>
<td>22-Sep</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>23-Sep</td>
<td>1pm</td>
<td>Climate skepticism and media</td>
<td>McCright and Dunlap 2011; Boykoff and Boykoff 2005</td>
</tr>
</tbody>
</table>

**Lab Section** 10:30am; 12pm  
(3) Why do people deny climate change?  
Lab 2 due; 2015 Pew Study

### Week 5

**Religion and the environmental ethics**

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>28-Sep</td>
<td>12pm</td>
<td>Attend Senator Ed Markey’s talk in Murray Function Room</td>
<td>Read portions of <em>The Enyclical</em></td>
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<td>1pm</td>
<td>Attend John Holdren talk in Murray Function Room</td>
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<td></td>
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<td>4:30pm</td>
<td>Attend Cardinal Turkson lecture in Robsham Theater</td>
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<tr>
<td>Tues</td>
<td>29-Sep</td>
<td>12pm</td>
<td>Attend Panel Discussion on vulnerable communities in Murray Function Room</td>
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<td></td>
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<td>4:30pm</td>
<td>Attend Chichilnisky keynote event in Robsham</td>
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<td></td>
<td></td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>30-Sep</td>
<td>10am</td>
<td>Attend Revkin and Gallicho panel on climate change and the media: Murray Function Room</td>
<td>Read Gallicho’s blog</td>
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<td></td>
<td>12pm</td>
<td>Attend lunch panel, Murray Function Room</td>
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<td></td>
<td></td>
<td>4:30pm</td>
<td>Attend Jenkins panel, Robsham</td>
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<tr>
<td>Thur</td>
<td>1- Oct</td>
<td>10am</td>
<td>Attend Campus Ministry Reflection, Campus Green</td>
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<td>12:00pm</td>
<td>Attend “What Can I Do?” fair, Campus Green</td>
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<td>3:00pm</td>
<td>Attend Agyeman keynote address, Campus Green</td>
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<tr>
<td>Fri</td>
<td>2-Oct</td>
<td>1pm</td>
<td>NO CLASS</td>
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</tbody>
</table>

**Lab Section** 10:30am; 12pm  
(3) Why do people deny climate change? (continued)  
Analyze data from interviews

### UNIT 2: Fueling Human Activity

**Week 6**  
**Population growth**

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>5-Oct</td>
<td>1pm</td>
<td>Exam 1</td>
<td>Penna Ch. 4</td>
</tr>
<tr>
<td>Tues</td>
<td>6-Oct</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>7-Oct</td>
<td>1pm</td>
<td>Population growth</td>
<td>Mike Davis <em>Planet of Slums</em>, excerpts</td>
</tr>
<tr>
<td>Fri</td>
<td>9-Oct</td>
<td>1pm</td>
<td>Global cities</td>
<td></td>
</tr>
<tr>
<td>Lab Section</td>
<td>10:30am; 12pm</td>
<td>(4) What is your carbon footprint?</td>
<td>Lab 3 due</td>
<td></td>
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</table>

Last Updated August 31, 2015
### Week 7

**Energy use and fossil fuels**

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Reading/Rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>12-Oct</td>
<td>1pm</td>
<td>NO CLASS–COLUMBUS DAY</td>
<td></td>
</tr>
<tr>
<td>Tues</td>
<td>13-Oct</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>14-Oct</td>
<td>1pm</td>
<td>Human energy use</td>
<td>Penna Ch. 9</td>
</tr>
<tr>
<td>Fri</td>
<td>16-Oct</td>
<td>1pm</td>
<td>Fossil fuels and CCS</td>
<td>Katchadourian 2011; Kunzig 2009; and Lackner 2010</td>
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</table>

**Lab Section**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:30am; 12pm</td>
<td>Tour of BC boiler plant</td>
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<td></td>
<td>(Facilities Manager, John MacDonald)</td>
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### Week 8

**The next industrial revolution**

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<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Reading/Rights</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon</td>
<td>19-Oct</td>
<td>1pm</td>
<td>Natural gas and “fracking”</td>
<td>Lavelle 2012; TBD (Boston Globe)</td>
</tr>
<tr>
<td>Tues</td>
<td>20-Oct</td>
<td>6pm</td>
<td>POD (Film Waste=Food)</td>
<td>Hawkins, Lovins and Lovins 1999; Watch Film Before Class: Frontline World stories from a small planet: Ghana, digital dumping ground 2010</td>
</tr>
<tr>
<td>Wed</td>
<td>21-Oct</td>
<td>1pm</td>
<td>Recycling waste</td>
<td></td>
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<tr>
<td>Fri</td>
<td>23-Oct</td>
<td>1pm</td>
<td>Energy efficiency</td>
<td>Lovins 2014 (Ch. 1 and 2)</td>
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**Lab Section**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:30am; 12pm</td>
<td>(5) Expansion of natural gas pipeline: An Investigation</td>
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### Week 9

**Renewable energy**

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<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Reading/Rights</th>
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</thead>
<tbody>
<tr>
<td>Tues</td>
<td>27-Oct</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Fri</td>
<td>30-Oct</td>
<td>1pm</td>
<td>Biofuels</td>
<td>Pimentel 2012 (Ch 1 and 4)</td>
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**Lab Section**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:30am; 12pm</td>
<td>(5) Natural gas pipeline, continued</td>
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</table>

### Week 10

**Decarbonization amid Globalization**

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Reading/Rights</th>
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</thead>
<tbody>
<tr>
<td>Mon</td>
<td>2-Nov</td>
<td>1pm</td>
<td>Film: Switch (part 1)</td>
<td></td>
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<tr>
<td>Tues</td>
<td>3-Nov</td>
<td>6pm</td>
<td>POD: Switch (part 2)</td>
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<tr>
<td>Wed</td>
<td>4-Nov</td>
<td>1pm</td>
<td>How do we decarbonize?</td>
<td>Jorgenson 2014</td>
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<td>Guest speaker: Andrew Jorgenson</td>
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<tr>
<td>Fri</td>
<td>6-Nov</td>
<td>1pm</td>
<td>Exam 2</td>
<td>Lab 5 Due; Jorgenson 2009</td>
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**Lab Section**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10:30am; 12pm</td>
<td>(6) Article Analysis: Decarbonization and Globalization</td>
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### UNIT 3: Social Justice and Sustainability

### Week 11

**Social justice**

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<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Reading/Rights</th>
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</thead>
<tbody>
<tr>
<td>Mon</td>
<td>9-Nov</td>
<td>1pm</td>
<td>Environmental justice in global South</td>
<td>OXFAM World Banquet</td>
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<tr>
<td>Tues</td>
<td>10-Nov</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>11-Nov</td>
<td>1pm</td>
<td>Urban environmental justice</td>
<td>Introduction and Chapter 2 of Agyeman 2003</td>
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Last Updated August 31, 2015
<table>
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<tr>
<th>Day</th>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Fri</td>
<td>13-Nov</td>
<td>1pm</td>
<td>Women and Environmental Justice</td>
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<td>(7) A Case Study: Ethiopia</td>
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<tr>
<td>Lab Section</td>
<td>10:30am; 12pm</td>
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<td>(7) A Case Study: Ethiopia</td>
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<tr>
<td>Lab Section</td>
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<td>Chapter 11 of Agyeman 2003</td>
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<td>Lab 6 due; World Bank 2013; Federal Democratic Republic of Ethiopia 2011</td>
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<tr>
<td><strong>Week 12</strong></td>
<td>Sustainable cities</td>
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<tr>
<td>Mon</td>
<td>16-Nov</td>
<td>1pm</td>
<td>“Sociology and Design in the Age of the Anthropocene”</td>
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<td>Guest speaker Damian White POD</td>
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<tr>
<td>Tues</td>
<td>17-Nov</td>
<td>6pm</td>
<td>Field Trip to MA Headquarters Fisheries and Wildlife</td>
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<tr>
<td>Wed</td>
<td>18-Nov</td>
<td>1pm-4pm</td>
<td>Field Trip to MA Headquarters Fisheries and Wildlife</td>
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<tr>
<td>Fri</td>
<td>20-Nov</td>
<td>1pm</td>
<td>Sustainable City Design</td>
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<td></td>
<td>11am-2pm</td>
<td>Alternate field trip</td>
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<td>Lab Section</td>
<td>10:30am; 12pm</td>
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<td>(8) COP 21 Paris Simulation</td>
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<td>Lab 7 due</td>
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<td><strong>Week 13</strong></td>
<td>Environmental governance</td>
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<tr>
<td>Mon</td>
<td>23-Nov</td>
<td>1pm</td>
<td>UN Paris Talk traverse CERES</td>
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<td>Guest speaker: Joseph Manning of CERES</td>
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<tr>
<td>Tues</td>
<td>24-Nov</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>25-Nov</td>
<td></td>
<td>THANKSGIVING-BREAK</td>
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<tr>
<td>Fri</td>
<td>27-Nov</td>
<td></td>
<td>THANKSGIVING-BREAK</td>
<td></td>
</tr>
<tr>
<td>Lab Section</td>
<td>10:30am; 12pm</td>
<td></td>
<td>(8) COP 21 Paris Simulation, cont.</td>
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<tr>
<td><strong>Week 14</strong></td>
<td>Environmental governance</td>
<td></td>
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<tr>
<td>Mon</td>
<td>30-Nov</td>
<td>1pm</td>
<td>Power and global governance</td>
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<td></td>
<td>Excerpts from Ciplet et al. 2015</td>
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<tr>
<td>Tues</td>
<td>1-Dec</td>
<td>6pm</td>
<td>POD</td>
<td></td>
</tr>
<tr>
<td>Wed</td>
<td>2-Dec</td>
<td>1pm</td>
<td>Social Change and GEG</td>
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<tr>
<td>Fri</td>
<td>4-Dec</td>
<td>1pm</td>
<td>Guest speaker: David Ciplet LIVE at COP 21</td>
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<tr>
<td>Lab Section</td>
<td>10:30am; 12pm</td>
<td></td>
<td>(8) COP 21 Paris Simulation, cont.</td>
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<tr>
<td><strong>Week 15</strong></td>
<td>Wrapping up and moving forward</td>
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<tr>
<td>Mon</td>
<td>7-Dec</td>
<td>1pm</td>
<td>Getting involved at BC, Careers in Sustainability; ENVS major;</td>
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<td>Guest speakers from BC</td>
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<tr>
<td>Tues</td>
<td>8-Dec</td>
<td>6pm</td>
<td>POD</td>
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<tr>
<td>Wed</td>
<td>9-Dec</td>
<td>1pm</td>
<td>Wrap-up of the class</td>
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<tr>
<td>Fri</td>
<td>11-Dec</td>
<td></td>
<td>NO CLASS–STUDY DAY</td>
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<tr>
<td>Lab Section</td>
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<td></td>
<td>Review for exam</td>
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<tr>
<td>Lab 8 due</td>
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<tr>
<td>Fri</td>
<td>18-Dec</td>
<td>9am</td>
<td>Final Exam</td>
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