Syllabus Winter 2023: PPHA 39930
International Climate Policy
Version updated: Dec 30th, 2022

Class Meeting Time: Tuesday / Thursday 11.00AM – 12.20PM

Room: Keller 0023

Instructor: Amir Jina

Office hours: Virtual office hours (around 2 hours per week). Details on front page of canvas

Teaching Assistants:
Jeffrey Wang (j3ffwang@uchicago.edu)
Xiuzhu Zhang (xiuzhu@uchicago.edu)

Course Description and Goals
Anthropogenic climate change is one of the most difficult challenges faced by modern society. And time to tackle it is running out. This decade is the last where society will have a chance to avoid the worst impacts. If we fail to mitigate the causes of climate change, we will be left with only options to adapt. No matter what career you pursue over the next 10 years, it’s unlikely that it will be untouched by some considerations of climate change and its impacts. Being able to look at and engage with climate change from multiple perspectives has never been more important.

This interdisciplinary course covers the tools and insights from economic analysis, environmental science, and statistics that inform our understanding of climate change impacts, the design of mitigation and adaptation policies, and the implementation of these policies. Students will develop a mastery of key conceptual ideas from environmental economics relevant for climate change and acquire tools, both theoretical and empirical, for conducting analyses of climate impacts and policies. The goal is to help students become informed and critically-minded practitioners of evidence-based, climate-informed policy making.

Climate change is also the subject of ongoing debate and discussion. Winter 2023 will be incredibly relevant for this debate. We will assess and digest the global commitments of the COP2 climate negotiations. We will additionally discuss major issues that have arisen in the past few years about climate policy. Be prepared to share and read news articles that cover many of these current topics. I will attempt to draw from my own experiences with ongoing climate policy debates.

Prerequisites
The aim of the class is to provide a basic common language and set of ideas about climate change. While some experience with introductory statistics might be helpful, the class is structured so that students from any discipline can engage with the ideas.
List of Course Texts, Required or Recommended Materials/Equipment

(1) Course slides posted weekly on Canvas
(2) Readings for each week to be provided on this syllabus.

Communication
All communications with me should be made through canvas message only. I will receive an email notification about this, in any case. The main reason for this is that messages sent through canvas will be categorized by course number and year both in my emails and in canvas itself. I won’t respond to emails about the class, only canvas messages. For anything unrelated to class, feel free to email ☺

Course Evaluation and Grading

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<thead>
<tr>
<th>Component</th>
<th>Date available</th>
<th>Date due</th>
<th>Percent of grade</th>
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<tbody>
<tr>
<td>Individual assignment 1</td>
<td>Jan 4</td>
<td>Jan 16</td>
<td>15%</td>
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<tr>
<td>Individual assignment 2</td>
<td>Jan 17</td>
<td>Jan 30</td>
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<td>Jan 31</td>
<td>Feb 13</td>
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<td>Op-Ed assignment</td>
<td>Feb 14</td>
<td>End of quarter</td>
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<tr>
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<td>Feb 14</td>
<td>End of quarter</td>
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<tr>
<td>Reading reflections</td>
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<td>10%</td>
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<td>Climate facts or figures</td>
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Reading reflections: Throughout the quarter you will be required to do THREE reading reflections. One should be in the first 3 weeks, one in the next 3 weeks, and one in the final 3 weeks. The content of these will not be graded, but they will be incorporated into some class discussion. Please post your reflection as a response to that weeks' reading reflection discussion topic.

Climate facts or figures: Throughout the quarter you will be required to post THREE "climate facts or figures" posts. One should be in the first 3 weeks, one in the next 3 weeks, and one in the final 3 weeks. These can be anything you want - an article, a blog post, a particularly controversial twitter thread, a single figure or graph, etc. - and should ideally be something you find in your personal exploration or contemporary policy topics. This is one of the most important ways for us to bring current issues into the class discussions. Please post your fact or figure as a response to that weeks' climate facts or figures discussion topic. These can be found in the relevant module or linked on the front page of canvas.

Individual assignments: There will be three individual assignments throughout the quarter. These will require a combination of data analysis and interpretation, sometimes quantitative, sometimes qualitative. All data analysis is expected to be replicable, with you submitting code in addition to your answers.
Op-ed: Students propose a topic about which they will write a short opinion piece. This can be anything about climate change, climate policy, energy policy, or related topics. The total length of this op-ed will be 750 words. A short (~50 word) initial proposal should be sent to me for feedback, in order to help develop your idea.

Group project: There will be one group project at the end of the quarter. This will involve students, in groups, analyzing the physical and social risks from climate change in a particular country, analyzing the commitments to reduce emissions made under the Paris Accords, and critically assessing whether these commitments are sufficient given the risks they face. Resources will be provided.

Late submission policy: Each student will have two 24-hour “tokens”. You can use these one-at-a-time or both together for no-questions-asked extensions to deadlines for any of the assignments. If assignments are late with no tokens remaining, and with no other explanation, you’ll lose 5% per day of overage. We’re all busy and times are weird, so if you’ve got circumstances that involve extra difficulty, message your TA and I about it.

Re-Grades: Any item for which there is a re-grade request must be done within 7 days after we return the assignment or exam to you. The request for re-grade MUST be done in writing and attached to the assignment. In such cases, we will re-grade the whole assignment— not just the question you identified. As a result, your grade may be lower.
Detailed Syllabus and Reading List (may change during the quarter)

Readings listed under “required readings” for each topic are, unsurprisingly, required readings. Some extra articles are provided under “more information” if you want to explore a topic more. Reading reflections can cover any of the readings. Some topics will be spread over multiple weeks. The weekly modules on canvas will indicate which readings will be most relevant for that week’s classes. All required reading pdf files will be available in the modules on canvas.

Part I: Climate Change and Climate Impacts (weeks 1-4)

1) A Crash Course in Climate Science for Policy-Makers (plus class introduction)

Topics: Greenhouse effect; Climate culprits; Residence time; Emissions trends and distribution; Emissions scenarios; Emissions sources; Global climate models; IPCC coordination of climate science; Heterogeneity of climate changes; Energy and energy intensity; Climate sensitivity;

Required reading

More information

2) Humans and the Environment

Topics: The Commons; Externalities and Public Goods; Energy and growth; “Common but Differentiated Responsibilities”; International climate negotiations; Adaptation; Mitigation; Uncertainty in emissions and parameters; Discounting and valuing the future; Social Cost of Carbon; Abatement costs; Optimal climate policy; Cost-benefit Analysis

Required reading

More information

3) Climate Impacts

Topics: Biophysical impacts methods; Socioeconomic impacts methods; Integrated Assessment Models (IAMs); Biophysical impacts; Economic impacts; Adaptation; Hedonic regression; Panel regressions; dose-response; International climate impacts; US and wealthy country climate impacts; Developing nation impacts; Socioeconomic impacts; dose-response; damage function; labour; agriculture; energy; health; conflict; ecosystems services; water; sea level rise impacts; TFP and GDP; Economic growth impacts;

Required Reading

More information
• Dell M, Jones B, Olken B. What Do We Learn from the Weather? The New Climate-Economy Literature. Journal of Economic Literature. 2014. Sec. 2.1 and 4.1

Part II: Climate Policy in Theory and Practice (weeks 5-9)

4) The International Climate Policy Framework

Topics: UNFCCC, Kyoto Protocol, Paris Accord; IPCC; Leakage; European Union Emissions Trading Scheme (EU-ETS); Climate and Development; Mitigation, Adaptation, and Loss and Damage;

Required reading
• Bodansky et al. (2015). “Facilitating linkage of climate policies through the Paris outcome” Climate Policy
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More information

5) An Introduction to Climate Policy Instruments

Topics: Mitigations and Adaptation, Emissions trading; Carbon pricing; Markets versus mandates; Cost-effectiveness; Political economy; Trade; Output and input taxes; Cap-and-trade

Required reading

More information

6) National Climate Policies in Practice

Topics: Power; Renewable energy; Transportation; Fuel and Energy efficiency; Marginal abatement curves; Energy access; Electrification; Energy policy in low income settings; “Energy ladder”; Innovation, technology; Research, development, and deployment; Renewable energy technology;

Required reading

More information
7) Integrated Assessment, Discounting, and the Social Cost of Carbon

*Topics: Cost-benefit analysis; Social Cost of Carbon in practice;*

**Required reading**


**More information**


8) Climate Justice and the Ethical Dimensions of Climate Change

*Topics: Climate Justice; Equity and Inequity aversion; Climate change and human rights; Distributional equity; Hedonic sorting; Energy access; Inequality of climate impacts;*

**Required reading**


**More information**

Policies and Student Resources
Many of the following policies are explicitly described in the University’s student manual. The University also offers a comprehensive set of student support services (described here), including student health services.

Teaching and learning in person, dual-modality, and/or remote environments

Aside from the first two weeks of class, this course is planned as an in-person experience, and students are expected to attend class at the Keller Center, with some exceptions as discussed below. Our practices and expectations include the following:

- We will use seating charts to facilitate any needed contact tracing. During the first two weeks of in-person class (weeks 3 and 4), I will pass around a sign-in sheet during each class meeting. On the sign-in sheet, please write your name next to your seat number.
- Students must wear masks properly—covering both nose and mouth—at all times while in the classroom. Students who fail to comply will be reported to the Harris Dean of Students and UCAIR, the University’s incident reporting system for COVID-19 safety matters.
- We ask that students not eat or drink during class.
- Please display your name tent every class so that I can more easily call on you by name.
- Because instructors, too, must comply with University teaching protocols, I will wear a face mask while in the classroom. If you cannot understand me even when I repeat or “try again” to speak, I will remove my mask temporarily to clarify, as long as I remain 6 feet away from the nearest person. Please do not hesitate to ask me to repeat or restate anything that is unclear at any time.

That said, of course, public health and/or personal health circumstances vary across individual members of the University community and may change abruptly with limited notice. Students, TA’s, and instructors may need to participate remotely for a short time or, in some limited instances, for the entire quarter. To guide expectations and plans, please note the following:

- If you are experiencing COVID-19 symptoms or are required to isolate, do not come to class!
  - As soon as possible, contact me or the TA by email if you cannot attend class for this reason. You should not send me medical information / doctors’ notes or the results of any COVID-19 test.
  - Students are expected to abide by the University’s COVID-19 health requirements AND its specific Protocol for Addressing Confirmed or Suspected COVID-19 Exposures. Note that the Protocol, which addresses self-monitoring, testing, and isolating requirements, represents evolving guidance and is subject to change.
  - Any member of the University community who tests positive for COVID-19 should inform the University contact tracing team at C19HealthReport@uchicago.edu.
  - Students missing class for short spells during the term are encouraged to watch class on Zoom either live or via recordings of class sessions, and otherwise participate in class as fully as possible, health permitting.
- A limited number of students may have permission to participate remotely for the entire quarter.
The Harris Dean of Students Office makes these determinations and informs instructors of enrolled students with permission.

- Enrolled students with remote status are encouraged to participate in class via live streaming, watch Zoom recordings of class sessions, and otherwise participate in class as fully as possible, health permitting. We may use dual-modal instructional technology to facilitate class participation of students with remote status.

- If I find that I cannot teach in person at some point during the term, I will communicate this as soon as possible to all the relevant stakeholders, including students!
  - Health permitting, I will teach remotely via Zoom on such occasions.
  - Students can attend class in the Keller Center but would participate via Zoom on such days. Students can also attend remotely from home (or any other location that is devoid of distractions).
  - I will be in touch with the TA, HSIT, and ASA to make sure things work smoothly.

**Use of Zoom, Panopto, and other on-line resources.**

By attending course sessions, students acknowledge that:

a. They will not: (i) record, share, or disseminate University of Chicago course sessions, videos, transcripts, audio, or chats; (ii) retain such materials after the end of the course; or (iii) use such materials for any purpose other than in connection with participation in the course.

b. They will not share links to University of Chicago course sessions with any persons not authorized to be in the course session. Sharing course materials with persons authorized to be in the relevant course is permitted. Syllabi, handouts, slides, and other documents may be shared at the discretion of the instructor.

c. Course recordings, content, and materials may be covered by copyrights held by the University, the instructor, or third parties. Any unauthorized use of such recordings or course materials may violate such copyrights.

d. Any violation of this policy will be referred to the Area Dean of Students.

**Mental Health Resources**

If you or someone you know is feeling overwhelmed, depressed, and/or in need of support, counseling services (including remote counseling) are available. Student Counseling Service (SCS) urges you to attend to your mental wellbeing and to reach out to them for support during these challenging times. All SCS services are covered by the Student Life Fee, and there is no additional cost for students to access their services. See [https://wellness.uchicago.edu/mental-health/](https://wellness.uchicago.edu/mental-health/). Students seeking new services/resources can call 773.702.9800 during business hours (Monday–Friday 8:30 a.m.–5 p.m.) and ask to speak with a clinician. Students needing urgent mental health care can speak with clinicians over the phone 24/7 by calling the SCS at 773.702.3625.

**Academic Integrity**

All University of Chicago students are expected to uphold the highest standards of academic Integrity and honesty. Among other things, this means that students shall not represent another’s work as their own, use un-allowed materials during exams, or otherwise gain unfair academic advantage.
• The University’s policies regarding academic integrity and dishonesty are described here. It is worth explicitly stating the University’s approach: “It is contrary to justice, academic integrity, and to the spirit of intellectual inquiry to submit another’s statements or ideas as one’s own work. To do so is plagiarism or cheating, offenses punishable under the University’s disciplinary system. Because these offenses undercut the distinctive moral and intellectual character of the University, we take them very seriously.”

• The Harris School’s policies are available in the Harris Student Handbook Canvas site.
  o The Academic Honesty and Plagiarism section expresses the main principles.
  o Detailed guidelines for more specialized student work (e.g., problem sets including computer code) are offered in the section titled Harris Integrity Policy for Problem Sets Involving Code.
  o Harris’s specific procedures for handling suspected violations of these policies are available in the section Harris Procedures for Allegations of Plagiarism, Cheating, and Academic Dishonesty and are also re-produced as an Appendix to this document.
  o All students suspected of academic dishonesty will be reported to the Harris Dean of Students for investigation and adjudication. The disciplinary process can result in sanctions up to and including suspension or expulsion from the University.
  o In addition to disciplinary sanctions, I will impose a grade penalty, to be decided based on the severity of the transgression. The student may receive a failing grade for the course regardless of their performance on elements of the course.

Disability Accommodations

  o The University’s policies regarding students with disabilities are available here. Students who have disability accommodations awarded by the University Student Disability Services Office should inform the Harris Dean of Students office by the end of the first week of class. The Harris Dean of Students Office will work with the student and instructor to coordinate the students’ accommodations implementation.
  o Harris students are not required to submit their accommodations letter to the instructor. Students from other divisions in the University must submit their accommodations letter to either the instructor or the Harris Dean of Students Office.
  o Students who do not yet have formal accommodations in place but who feel they need accommodations on a temporary or ongoing basis should contact the Harris Dean of Students Office or Student Disability Services.

Diversity and Inclusion

The Harris School welcomes, values, and respects students, faculty, and staff from a wide range of backgrounds and experiences, and we believe that rigorous inquiry and effective public policy problem-solving requires the expression and understanding of diverse viewpoints, experiences, and traditions.
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The University and the Harris School have developed distinct but overlapping principles and guidelines to ensure that we remain a place where difficult issues are discussed with kindness and respect for all.

- The University’s policies are available here. Specifically, the University identifies the freedom of expression as being “vital to our shared goal of the pursuit of knowledge, as is the right of all members of the community to explore new ideas and learn from one another. To preserve an environment of spirited and open debate, we should all have the opportunity to contribute to intellectual exchanges and participate fully in the life of the University.”
- The Harris School’s commitments to lively, principled, and respectful engagement are available here: “Consistent with the University of Chicago’s commitment to open discourse and free expression, Harris encourages members of the leadership, faculty, student body, and administrative staff to respect and engage with others of differing backgrounds or perspectives, even when the ideas or insights shared may be viewed as unpopular or controversial. We foster thought-provoking discourse by encouraging community members not only to speak freely about all issues but also to listen carefully and respectfully to the views of others.

A Note on Sexual Misconduct

- University of Chicago is committed to fostering a safe, productive learning environment. Title IX and our school policy prohibits discrimination on the basis of sex. Sexual misconduct — including harassment, domestic and dating violence, sexual assault, and stalking — is also prohibited at our school.
- Anyone experiencing sexual misconduct is encouraged to talk to someone about what happened, so they can get the support they need and our school can respond appropriately.
- If you wish to speak confidentially about an incident of sexual misconduct, want more information about filing a report, or have questions about school policies and procedures, please contact our Title IX Coordinator, which can be found on University of Chicago’s website.
- University of Chicago is legally obligated to investigate reports of sexual misconduct after a formal complaint is filed or signed by the Title IX Coordinator, but a request for confidentiality will be respected to the extent possible.
Harris Procedures for Allegations of Plagiarism, Cheating, and Academic Dishonesty

First Violation

If a student is accused by an instructor or teaching assistant of plagiarism, cheating, or any other form of academic dishonesty, the student will be summoned to meet with the Dean of Students and the instructor. In the meeting, the student and instructor both present information about the situation. If it is determined by the instructor and the Dean of Students that the student has, in fact, plagiarized or cheated, the following sanctions will be imposed for the first violation:

- The student will generally receive a grade of 0 on the assignment or exam in question. Please note that grading decisions are fully at the discretion of the instructor, who may decide to impose harsher grade penalties.
- The student may be asked to re-do the assignment or retake the exam (without credit) to ensure that the student has learned how to properly cite sources or demonstrate that he or she has command of material covered.
- A formal letter of finding is sent to the student stating that the student has been found in violation of the code of academic honesty and what the sanctions were. The letter, along with any evidence presented, is archived in Harris Student Affairs records until the student graduates if the student has no other violations.
- Students found in violation of the academic honesty policy are not permitted to withdraw from the course to avoid grade penalties from the instructor.
- In cases where plagiarism or academic dishonesty is egregious, the case may be referred to the Area Disciplinary Committee even on a first offense. The Dean makes all decisions about which cases will go before the Area Disciplinary Committee.

Second Violation

If a student who has already been found in violation academic dishonesty is again accused of academic dishonesty, the case will be sent to the Harris Area Disciplinary Committee. Details about the Area Disciplinary Committee procedures can be found in the University Student Manual. Information about the first violation, including the formal letter of finding any evidence, will be presented to the Area Disciplinary Committee, along with evidence of the current allegation. If the student is found in violation of academic honesty a second time, the Area Disciplinary Committee can assign sanctions including transcript notes, disciplinary probation, suspension or expulsion from the University.

Academic Dishonesty Appeals

If a student has been found in violation of academic honesty and does not believe that either the finding or the sanction is fair or correct, the student has the right to appeal the finding by requesting a hearing from the Area Disciplinary Committee. More information about the Area Disciplinary Committee is available here.