

POLITICAL ECONOMY OF GLOBAL CLIMATE CHANGE
POLSCI 768 / GLOBALST 725
Winter 2023, Term 2

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Course Description

This course provides students with an opportunity to investigate the global political economy of climate change. We will examine the interplay of economic and political factors shaping the ongoing struggle over the production and consumption of fossil fuels. Key issues will include carbon pricing, curbing consumption, fossil fuel corporate behaviour, the problem of transition, technological fixes, degrowth strategies, country case studies and future possibilities. No formal training in economics is required, but some familiarity with economic concepts would be helpful.

Course Objectives

By the end of the course students should be able to:

1. Develop a critical understanding of the interaction of political and economic factors with climate change.
2. Pursue one climate change topic in depth through a research paper.
3. Answer convincingly the following questions:
 - How has climate change become politicized and what are the implications of this?
 - What are the political and economic obstacles to taking significant action on climate change?

Required Materials and Texts

- The majority of readings are from journal articles. However, we will be reading most of Michael E. Mann, *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs, 2021). I have also assigned about half of Bill Gates, *How to Avoid a Climate Disaster: The Solutions we have and the breakthroughs we need* (New York: Random House 2021). You may wish to purchase these for convivence.

Class Format

Students will be assigned to lead a discussion of particular weeks, beginning in Week 3. Prior to each class students will be required to submit on Avenue a one page 'summary notes' document on the texts they have read. This document will contain:

1. A list of key concepts and terms.
2. A summary of statement (four sentences maximum) of each author's main argument. This statement should be written in your own words as far as possible. It should not be borrowed directly from the text of the reading.

3. Three or four issues or questions in the readings that are important and merit some discussion and that you would like to be addressed in the seminar. Formulate these in the form of a question.

Students will be expected to be active participants in class discussions. This involves leading discussions, highlighting points from the readings, engaging with the arguments of the texts, offering criticism of what you have read and asking questions about the text. Talking for the sake of talking or making irrelevant points does not contribute to your participation grade.

Course Evaluation – Overview

1. Seminar Participation	30%	over the term
2. Short Paper	20%,	due Feb. 1, 2023
3. Research Paper Proposal	5%,	due March 1, 2023
4. Research Paper	45%,	due April 12, 2023

Course Evaluation – Details

Participation (30%), ongoing

The participation grade covers seminar attendance and participation. I will take notes on the seminar discussions. General seminar participation is out of 15. In addition, summary notes are graded as $10 \times 1 = 10$; leading a seminar discussion is marked out of 5.

Short paper (20%), due Feb. 1

Based on your reading of the material from weeks 1 and 2, as well as any other material you have read in previous classes, write a paper responding to the following question: ***How should climate change influence our understanding of politics and economics?*** It should be no longer than 1,200 words, excluding references.

Research proposal (5%), due March 1

This paper is **due in week eight**. It should be three pages long and include:

- primary research question
- explanation of how it fits into course
- topics that will be addressed
- questions that need to be answered
- preliminary bibliography

Research paper (45%), due April 12

The final research paper is **due on April 12**. The paper should be no longer than 4,000 words, excluding bibliography. It must be based on your paper outline and material beyond the course readings.

Weekly Course Schedule and Required Readings

Week 1 (Jan 11.) Climate Change and Politics

The question we will be considering in the first week is: 'How does climate change influence the way we think of politics?'

- Clapp, Jennifer, and Peter Dauvergne. 'Peril or Prosperity? Mapping Worldviews of Global Environmental Change.' *Paths to a Green World: The Political Economy of the Global Environment* 2nd edition (2011): 1-16.
- Anthony Burke, Stephanie Fishel, Audra Mitchell, Simon Dalby and Daniel J. Levine, 'Planet Politics: A Manifesto from the End of IR' *Millennium*, 44 (3), (2016): 499–523.
- David Chandler, Erika Cudworth and Stephen Hobden, S. 'Anthropocene, Capitalocene and Liberal Cosmopolitan IR: A Response to Burke et al.'s 'Planet Politics'. *Millennium: Journal of International Studies* 46 (2), (2018):190-208.
- Dipesh Chakrabarty. 'The Politics of Climate Change Is More Than the Politics of Capitalism', *Theory, Culture & Society*. 34(2-3) (2017): pp. 25-37.

Week 2 (Jan. 18) Climate change and economics

Our task this week is to get a better understanding of how economists tend to view climate change and the types of solutions they propose. We will do this by sampling the work of two of the most prominent climate change economists - Nicolas Stern and William Nordhaus. We will also look at the views of Mark Carney, former Governor of both the Bank of Canada and Bank of England. This week's question is: How does the field of economics view the climate change problem?

- William Nordhaus 'Climate Change: The Ultimate Challenge for Economics' *American Economic Review* Vol. 109:6 (Jun 2019), pp. 1991-2014.
- Andrew J Oswald and Nicholas Stern (2019) "Why does the economics of climate change matter so much and why has economic engagement been so weak?" Royal Economic Society Newsletter, UK, October.
- Mark Carney, 'Breaking the Tragedy of the Horizon: Climate Change and Financial Stability', Speech, Governor of the Bank of England to Lloyds of London, 29 September 2015, London, UK.

Week 3 (Jan. 25) Left and Right Responses

While many states pursue mainstream economic responses to climate change, critics on the left and right see things substantially differently. How do the left and right view climate change and what are some of their 'solutions'?

- Lockwood, Matthew. "Right-wing populism and the climate change agenda: exploring the linkages" *Environmental Politics* Vol. 27:4 (2018): 712-732.
- Lockwood, Ben and Matthew Lockwood. "How Do Right-Wing Populist Parties Influence Climate and Renewable Energy Policies? Evidence from OECD Countries." *Global Environmental Politics*, vol. 22 no. 3, (2022): 12-37.
- Fred Magdoff and John Bellamy Foster, 'What Every Environmentalist needs to know about capitalism' *Monthly Review* 61/10 (March 2010): 1-30.
- Naomi Klein, 'One Way or Another Everything Changes' *This Changes Everything: Capitalism vs. The Climate* (Toronto: Vintage 2015), pp. 1-30.

Week 4 (Feb. 1) Consumption

Some observers have argued that environmental problems cannot be seriously addressed until we examine consumption issues. Begin by reading what the International Energy Agency (IEA) has to say about present levels of CO₂ emissions in the energy sector. Then read a series of book chapters which consider the role of individual responsibility for consumption. Our question this week is 'What role does consumption play in the climate change problem?'

- IEA 2022. ['World Energy Outlook 2022 shows the global energy crisis can be a historic turning point towards a cleaner and more secure future'](#) Press Release, International Energy Agency.
- Peter Dauvergne, "Conclusion: The Allure and Illusion of Riches" *Environmentalism of the Rich* (Cambridge; MIT Press, 2016), pp. 139-152.
- Michael E. Mann, 'It's YOUR fault' *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs), 63-97.
- Mark Jaccard, 'We must change our behaviour' *The Citizen's Guide to Climate Success: Overcoming myths that hinder progress* (Cambridge: Cambridge University Press 2020), pp. 144-164. Open access online.

Notes: Short paper due in Avenue before class

Week 5 (Feb. 8) Carbon Pricing Politics

Economists tend to agree that the best way to deal with climate change is to put a price on carbon. The two primary tools are the carbon tax and cap and trade. While it is debatable whether pricing carbon is sufficient to deal with climate change, even this modest step has proved to be politically difficult to implement.

What are the advantages and disadvantages of dealing with climate change through carbon pricing?

- William Nordhaus, 'The Central Role of Carbon Prices' *The Climate Casino: Risk, Uncertainty, and Economics for a Warming World*, Yale University Press, 2013, 220-32.
- Matthew Paterson, 'Who and what are carbon markets for? Politics and the development of climate policy' *Climate Policy* Vol. 12:1 (August 2011), pp. 82-97.
- Robert MacNeil, 'Death and Environmental Taxes: Why Market Environmentalism Fails in Liberal Market Economies' *Global Environmental Politics* Vol 16:1 (February 2016), pp. 21-37.
- Michael E. Mann, 'Put a Price on it. Or not,' *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs), 99-122.
- Mark Jaccard, 'We must price carbon emissions', 'We can be Carbon Neutral' *The Citizen's Guide to Climate Success: Overcoming myths that hinder progress* (Cambridge: Cambridge University Press 2020), pp. 95-127, 165-182. Open access.

Week 6 (Feb. 15) Fossil Fuel Corporations

Fossil fuel companies are at the centre of the climate change problem. What role have they played in the political struggle to address greenhouse gas emissions?

- Michael E. Mann, 'The Climate Wars,' *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs), 22-45.
- Brett Christophers, 'Fossilised Capital: Price and Profit in the Energy Transition' *New Political Economy*, 2022, Vol. 27, No. 1, 146–159
- Matthew Bach (2019) 'The oil and gas sector: from climate laggard to climate leader?,' *Environmental Politics*, 28:1, 87-103,
- Benjamin Franta (2021) 'Weaponizing economics: Big Oil, economic consultants, and climate policy delay,' *Environmental Politics*, 1-21.
- Geoffrey Supran, Naomi Oreskes, 'Rhetoric and frame analysis of ExxonMobil's climate change communications' *One Earth* 2021

Week 7 (Feb. 22) Reading Week, NO CLASS

Week 8 (Mar. 1) Curbing fossil fuel production

Putting a price on carbon is a strategy to curb demand for fossil fuels. What about the supply side? Can anything be done about reducing the supply of fossil fuels?

- Georgia Piggot, Cleo Verkuil, Harro van Asselt, Michael Lazarus, 2020 'Curbing fossil fuel supply to achieve climate goals' *Climate Policy* 20(8) p.881 - 887

- Nicolas Gaulin, Philippe Le Billon, 2020 'Climate change and fossil fuel production cuts: assessing global supply-side constraints' *Climate Policy* 20(8) p.888 – 901
- Fergus Green, Ajay Gambhir, 2020 'Transitional assistance policies for just, equitable and smooth low-carbon transitions: who, what and how?' *Climate Policy* 20(8) p.902 – 921
- Peter Newell, Andrew Simms, 'Towards a fossil fuel non-proliferation treaty' *Climate Policy* 20(8) p.1043 – 1054
- Sibylle Braungardt, Jeroen van den Bergh, Tessa Dunlop, 'Fossil fuel divestment and climate change: Reviewing contested arguments' *Energy Research and Social Science* 50 (2019): 191-200

Notes: Research proposal due

Week 9 (Mar. 8) Lock-in and Transition

It is extremely difficult to change human civilization's primary energy source. One of the concepts developed to capture the complexity of this task is 'carbon lock in'. Recently the discussion has focused on the idea of a rapid transition. What is required to move the energy transition forward?

- Unruh, Gregory C. "Understanding Carbon Lock-in." *Energy Policy* Vol. 28:12 (2000), pp. 817-830.
- Rebecca Pearse, 'Theorising the Political Economy of Energy Transformations: Agency, Structure, Space, Process' *New Political Economy* 2021, Vol. 26, No. 6, 951–963
- Peter Newell and Andrew Simms, 'How Did We Do That? Histories and Political Economies of Rapid and Just Transitions' *New Political Economy* 2021, Vol. 26, No. 6, 907–922
- Matthew Paterson, 'The End of the Fossil Fuel Age'? Discourse Politics and Climate Change Political Economy,' *New Political Economy*, 2021, Vol. 26, No. 6, 923–936

Week 10 (Mar. 15) Technological fixes

One possible way out of the climate problem could be technological innovations. This is especially attractive to those with an engineering background. What are the possibilities and obstacles to a technical fix for climate change?

- Bill Gates, '51 Billion to Zero,' 'Five Questions to Ask in Every Climate Conversation,' 'A Plan for Getting to Zero' *How to Avoid a Climate Disaster: The Solutions we have and the breakthroughs we need* (New York: Random House 2021), 3-23, 70-88, 270-301.
- Bill McKibben, 'How does Bill Gates Plan to Solve the Climate Crisis' *New York Times* Feb. 15, 2021.

- Michael E. Mann, 'Sinking the Competition' 'The Non-Solution Solution' *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs), 123-146, 147-178.
- Stephens JC, Surprise K, (2020). 'The hidden injustices of advancing solar geoengineering research.' *Global Sustainability* 3, e2, 1–6.

Week 11 (Mar. 22) Degrowth

One response to the consumption problem has been the suggestion that societies pursue a degrowth strategy. What would such a strategy entail?

- Giorgos Kallis, "In defence of degrowth' *Ecological Economics* 70 (2011) 873-80.
- Jason Hickel, What does degrowth mean? A few points of clarification *Globalizations* 2021, Vol. 18, No. 7, 1105–1111
- Ted Trainer, What does Degrowth mean? Some comments on Jason Hickel's 'A few points of clarification' *Globalizations* 2021, Vol. 18, NO. 7, 1112–1116
- Patricia E. (Ellie) Perkins, "Climate justice, commons, and degrowth" *Ecological Economics*, Vol. 160:C (2019), pp. 183-190.

Week 12 (Mar. 29) Around the World

Climate change threats and responses vary around the world. This week we'll do a brief sampling of different locations and positions. How does the climate change problem look outside of the industrialized north?

- Julian Brave Noisecat, 'Slaying the Carbon-Consuming Colonial Hydra: Indigenous Contributions to Climate Action' *Development* Vol. 59:3-4 (2016), pp. 199-204.
- Aniruddh Mohan & Timon Wehnert, "Is India pulling its weight? India's nationally determined contribution and future energy plans in global climate policy" *Climate Policy* Vol. 19:3 (2019), pp. 275-282.
- Isabel Hilton & Oliver Kerr, 'The Paris Agreement: China's 'New Normal' role in international climate negotiations' *Climate Policy* Vol. 17:1 (2017), pp. 48-58.
- Patrick Bond, 'Who Wins From "Climate Apartheid"?: African Climate Justice Narratives About the Paris COP21' *New Politics* Vol. 15:4 (2016), pp. 83-90.
- Corinna Dengler, Lisa Marie Seebacher, 'What About the Global South? Towards a Feminist Decolonial Degrowth Approach,' *Ecological Economics* Vol. 157 (2019), pp. 246-252.

Week 13 (Apr. 5) Into the Future

What are the prospects for climate action following the Paris Agreement and into the near future?

- Peter Newell & Olivia Taylor (2020) Fiddling while the planet burns? COP25 in perspective, *Globalizations*, 17:4, 580-592

- Axel Michaelowa, Myles Allen and Fu Sha, 'Policy instruments for limiting global temperature rise to 1.5°C – can humanity rise to the challenge?' *Climate Policy* Vol. 18:3 (2018), pp. 1-12.
- Michael E. Mann, 'Meeting the Challenge,' *The New Climate War: The Fight to Take Back Our Planet* (New York: Public Affairs, 2021), 225-67.
- Mark Jaccard, 'The Simple Path to success with our Climate-Energy Challenge' *The Citizen's Guide to Climate Success: Overcoming myths that hinder progress* (Cambridge: Cambridge University Press 2020), pp. 239-65.

Notes: Research Paper due April 12

Week 14 (Apr. 12) Additional readings

Politics and CC

- Cameron Harrington, 'The Ends of the World: International Relations and the Anthropocene,' *Millennium: Journal of International Studies* 44 (3) (2016): 478-498.
- Steven Bernstein, 'Liberal Environmentalism and Global Environmental Governance' *Global Environmental Politics* Vol. 2:3 (August 2002), pp. 1-16.
- Paul Crutzen. 'Geology of mankind', *Nature*. 415, 3 January (2002): p. 23.
- Andreas Malm and Alf Hornborg. 'The geology of mankind? A critique of the Anthropocene narrative', *The Anthropocene Review*. 2014, Vol. 1(1) pp. 62-69.
- Andreas Duit, Peter H. Feindt & James Meadowcroft (2016) 'Greening Leviathan: the rise of the environmental state?' *Environmental Politics*, Vol. 25:1 (2016), pp. 1-23.
- Stephen M. Gardiner, 'A Perfect Moral Storm: Climate Change, Intergenerational Ethics and the Problem of Moral Corruption,' *Environmental Values* Vol. 15:3 (August 2006), pp. 397-413.
- Marcel J. Dorsch and Christian Flachslan 'A Polycentric Approach to Global Climate Governance' *Global Environmental Politics* Vol. 17:2 (May, 2017), pp. 45-64.
- Robert O. Keohane and David G. Victor, 'The Regime Complex for Climate Change' *Perspectives on Politics* Vol. 9:1 (March 2011), pp. 7-23.
- Razmig Keucheyan, 'Environmental Racism' *Nature is a Battlefield: Towards a Political Ecology* (Cambridge: Polity Press, 2016), pp.8-54.
- Thomas Hale, "All Hands on Deck": The Paris Agreement and Nonstate Climate Action' *Global Environmental Politics* Vol.16:3 (August, 2016), pp. 12-22.
- Thomas Bernauer, 'Climate Change Politics' *Annual Review of Political Science* Vol. 16 (2013), pp. 421-48.
- Hamish van der Ven, Steven Bernstein, and Matthew Hoffmann, 'Valuing the Contributions of Nonstate and Subnational Actors to Climate Governance' *Global Environmental Politics* Vol. 17:1 (February 2017), pp. 1-20.

- Marcel Hanegraaff, 'Transnational Advocacy over Time: Business and NGO Mobilization at UN Climate Summits' *Global Environmental Politics* Vol. 15:1 (March 2015), pp. 83-104.
- Lisa Vanhala and Cecilie Hestbaek, Framing Climate Change Loss and Damage in UNFCCC Negotiations *Global Environmental Politics* Vol. 16:2 (October, 2016), pp.111-129.
- Doug McAdam, "Social Movement Theory and the Prospect for Climate Change Activism in the United States" *Annual Review of Political Science* Vol. 20 (May 2017), pp. 189-208.

Science and politics

- Stephan Lewandowsky, et.al, 'Science and the Public: Debate, Denial, and Skepticism' *Journal of Social and Political Psychology* Vol. 4:2 (January 2016), pp. 537-553.
- Rolf Lidskog and Goran Sundqvist, 'When Does Science Matter? International Relations Meets Science and Technology Studies, *Global Environmental Politics* Vol. 15:1 (February 2015), pp.1-20.
- Hannah Hughes, 'Bourdieu and the IPCC's Symbolic Power' *Global Environmental Politics* Vol. 15:4 (November, 2015), pp. 85-104.
- Peter J. Jacques and Claire Connolly Knox, 'Hurricanes and hegemony: A qualitative analysis of micro-level climate change denial discourses' *Environmental Politics* Vol. 25:5 (May 2016), pp. 831-852.
- Jeremiah Bohr 'The 'climatism' cartel: why climate change deniers oppose market-based mitigation policy' *Environmental Politics* Vol. 25:5, (March, 2016), pp. 812-830.

Economics

- James K. Galbraith, 'Economics and the climate catastrophe,' *Globalizations* 2021, Vol. 18, No. 7, 1117–1122
- Barry Gills and Jamie Morgan, 'Teaching climate complacency: mainstream economics textbooks and the need for transformation in economics education' *Globalizations* 2021, Vol. 18, No. 7, 1189–1205
- Terry Barker, 'The Economics of Avoiding Dangerous Climate Change' *Green Economy Reader* (Springer, Online, 2017), pp. 237-63.
- Nicholas Stern, *The Economics of Climate Change: The Stern Review* (Cambridge: Cambridge University Press 2007).
- William Nordhaus, *The Climate Casino: Risk, Uncertainty and Economics for a Warming World* (New Haven: Yale University Press, 2013).

Problem with climate models

- Steve Keen, 'The appallingly bad neoclassical economics of climate change' *Globalizations* 2021, Vol. 18, No. 7, 1149–1177
- Salvi Asefi-Najafabady, Laura Villegas-Ortiz and Jamie Morgan 'The failure of Integrated Assessment Models as a response to 'climate emergency' and

ecological breakdown: the Emperor has no clothes' *Globalizations* 2021, VOL. 18, NO. 7, 1178–1188

- Robert S. Pindyck 'The Use and Misuse of Models for Climate Policy,' *Review of Environmental Economics and Policy* Vol. 11:1 (Winter 2017), pp. 100–114.
- Nicolas Stern, 'Economics: Current climate models are grossly misleading' *Nature* Vol. 530:7591 (2016), pp. 407–409.

Market Failure

- Alain Marciano, Steven G. Medema; Market Failure in Context: Introduction. *History of Political Economy* 1 December 2015; 47 (suppl_1): 1–19
- Nicolas Stern, 'Policies for Dynamic Change and Transition: Lessons from Economic History and Economic Theory,' *Why Are We Waiting?: The Logic, Urgency and Promise of Tackling Climate Change* (Cambridge: MIT Press, 2015), pp. 91-130.

Right wing politics

- Elizabeth Bomberg "Environmental politics in the Trump era: an early assessment" *Environmental Politics* Vol. 26:5 (May, 2017), pp. 956-963
- Mark Jaccard, 'This fossil fuel project is essential' *The Citizen's Guide to Climate Success: Overcoming myths that hinder progress* (Cambridge: Cambridge University Press 2020), pp. 74-94.
- James Everett Hein & J. Craig Jenkins, "[Why does the United States lack a global warming policy? The corporate inner circle versus public interest sector elites](#)" *Environmental Politics* Vol. 26:1 (October, 2016), pp. 97-117.
- Wanyun Shao, '[Weather, climate, politics, or God? Determinants of American public opinions toward global warming](#)' *Environmental Politics* Vol. 26:1 (2017), pp. 71-96.
- Patrick J. Egan and Megan Mullin, "Climate Change: US Public Opinion" *Annual Review of Political Science* Vol. 20 (May 2017), pp. 209-227.
- Huq, E., & Mochida, H. (2018). '[The Rise of Environmental Fascism and the Securitization of Climate Change](#)' *Projections*.
- Laura Pulido, Tianna Bruno, Cristina Faiver-Serna & Cassandra Galentine, "Environmental Deregulation, Spectacular Racism, and White Nationalism in the Trump Era" *Annals of the American Association of Geographers* Vol. 109:2 (2019), pp. 520-532.
- Jordan Dyett and Cassidy Thomas, 'Overpopulation Discourse: Patriarchy, Racism, and the Specter of Ecofascism' *Perspectives on Global Development and Technology* Vol. 18 (2019):1-2 (January 2019).
- Jason, Wilson, '[Eco-fascism is undergoing a revival in the fetid culture of the extreme right](#)' *The Guardian* 19 March 2019.
- Rebeca Solnit, '[Why Climate Action is the Antithesis of White Supremacy](#)' *The Guardian* 19 March 2019.
- Graham Lawton, '[The rise of real eco-fascism](#)' *New Scientist* Vol. 243:3243 (August 2019), pp.24.

- Jeff Sparrow, [‘El Paso shooting and the rise of eco-fascism’](#) *Eureka Street* Vol. 29:15 (August 2019).
- Marco Armiero, [‘Introduction: Fascism and nature’](#), *Modern Italy* Vol. 19:3 (2014), pp. 241-245.
- Daniel Aldana Cohen, [‘Stop Eco-Apartheid: The Left’s Challenge in Bolsonaro’s Brazil’](#) *Dissent* Vol. 66:1 (2019), pp. 23-31.
- Benjamin Neimark, John Childs, Andrea J. Nightingale, Connor Joseph Cavanagh, Sian Sullivan, Tor A. Benjaminsen, Simon Batterbury, Stasja Koot & Wendy Harcourt, [“Speaking Power to “Post-Truth”: Critical Political Ecology and the New Authoritarianism”](#) *Annals of the American Association of Geographers*, Vol. 109:2 (2019), pp. 613-623.

Consumption

- E. C. Alfredsson, “Green Consumption no solution for climate change’ *Energy* Vol 29:4 (2004), pp. 513-524.
- P.G. Harris and T. Lee, “Compliance with climate change agreements: the constraints of consumption” *International Environmental Agreements: Politics, Law and Economics* Vol. 17: (December 2017), pp. 779-794.
- Thomans Princen, Michael Miniates, Ken Conca, eds., “Conclusion: to confront consumption” *Confronting Consumption* (MIT Press), pp. 317-328.
- Peter Dauvergne, “An Unbalanced Global Political Economy” *The Shadows of Consumption: Consequences for the Global Environment* (Cambridge: MIT Press, 2010), pp. 3-17.

Carbon Pricing

- Erik Haites (2018) ‘Carbon taxes and greenhouse gas emissions trading systems: what have we learned?’ *Climate Policy*, 18:8, 955-966
- Joseph E. Aldy and Robert N. Stavins, ‘The Promise and Problems of Pricing Carbon: Theory and Experience’, *Journal of Environment & Development* Vol. 21:2 (2012), pp. 152–180.
- Jonas Meckling & Steffen Jenner, ‘Varieties of market-based policy: Instrument choice in climate policy’ *Environmental Politics* Vol. 25:5 (May, 2016), pp. 853-874.
- Easwaran Narassimhan, Kelly S. Gallagher, Stefan Koester & Julio Rivera Alejo (2018) Carbon pricing in practice: a review of existing emissions trading systems, *Climate Policy*, 18:8, 967-991,
- Denny Ellerman, Claudio Marcantonini and Aleksandar Zahlan, ‘The European Union Emissions Trading System: Ten Years and Counting’ *Review of Environmental Economics and Policy* Vol. 10:1 (Winter, 2016), pp.89-107.
- Katja Biedenkopf, Patrick Müller, Peter Slominski, and Jørgen Wettestad, ‘A Global Turn to Greenhouse Gas Emissions Trading? Experiments, Actors, and Diffusion’ *Global Environmental Politics* Vol. 17:3 (August 2017), pp. 1-11.
- Romain Felli, ‘Environment, not planning: the neoliberal depoliticisation of environmental policy by means of emissions trading’ *Environmental Politics* Vol. 24:5 (June 2015), pp. 641-660.

- Razmig Keucheyan, 'Financializing Nature: Insuring Climatic Risk' *Nature is a Battlefield: Towards a Political Ecology* (Cambridge: Polity Press, 2016), pp. 55-103.

Fossil Fuel Companies

- Naghmeh Nasiritousi (2017) Fossil fuel emitters and climate change: unpacking the governance activities of large oil and gas companies, *Environmental Politics*, 26:4621-647,
- Ans Kolk and Jonatan Pinkse 'Multinationals' Political Activities on Climate Change' *Business & Society* Volume 46 Number 2 June 2007 201-228
- Frank W Geels Regime Resistance against Low-Carbon Transitions: Introducing Politics and Power into the Multi-Level Perspective Theory, *Culture & Society* 2014, Vol. 31(5) 21–40
- Christophe Bonneuil, Pierre-Louis Choquet, Benjamin Franta Early warnings and emerging accountability: Total's responses to global warming, 1971–2021 *Global Environmental Change* 71(2021) 102386
- Nicolas Graham, William K. Carroll, David Chen, 'Carbon Capital's Political Reach: A Network Analysis of Federal Lobbying By The Fossil Fuel Industry From Harper To Trudeau' *Canadian Political Science Review* Vol. 14, No. 1, 2020, 1-31
- Union of Concerned Scientists Tracing Fossil Fuel Companies' Contribution to Climate Change and Ocean Acidification

Curbing Fossil Fuel Production

- Ipek Gençsü, Shelagh Whitley, Markus Trilling, Laurie van der Burg, Maeve McLynn, Leah Worrall, 2020, 'Phasing out public financial flows to fossil fuel production in Europe' *Climate Policy* 20(8) p.1010 - 1023
- Giorel Curran, 2020, 'Divestment, energy incumbency and the global political economy of energy transition: the case of Adani's Carmichael mine in Australia' *Climate Policy* 20(8) p.949 – 962.
- Ryan Rafaty, Sugandha Srivastav, Björn Hoops, 2020 'Revoking coal mining permits: an economic and legal analysis' *Climate Policy* 20(8) p.980 - 996
- Greg Muttitt, Sivan Kartha, 2020 'Equity, climate justice and fossil fuel extraction: principles for a managed phase out' *Climate Policy* 20(8) p.1024 - 1042
- Guri Bang, Bård Lahn, 2020 'From oil as welfare to oil as risk? Norwegian petroleum resource governance and climate policy' *Climate Policy* 20(8) p.997 - 1009
- Fernando Tudela, 2020 'Obstacles and opportunities for moratoria on oil and gas exploration or extraction in Latin America and the Caribbean' *Climate Policy* 20(8) p.922 - 930
- Claudia Strambo, Ana Carolina González Espinosa, 2020 'Extraction and development: fossil fuel production narratives and counternarratives in Colombia' *Climate Policy* 20(8) p.9

Lock in and Transition

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Course Policies

Submission of Assignments

Please submit your assignments on the due date. You have a no questions asked grace period of two days. After that, there is a penalty of 1/3 of a letter grade each day.

Grades

Grades will be based on the McMaster University grading scale:

MARK	GRADE
90-100	A+
85-90	A
80-84	A-
77-79	B+
73-76	B
70-72	B-
69-0	F

Late Assignments

I expect all work to be handed in on time. Speak to me if you are likely to miss a deadline. Late work will be penalized.

Absences, Missed Work, Illness

Please inform me of any absences or illnesses before the scheduled class.

Courses With An On-Line Element

Some courses may use on-line elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail 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 a course that uses on-line elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure please discuss this with the course instructor.

Online Proctoring

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

Authenticity / Plagiarism Detection

Some courses may use a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. For courses using such software, students will be expected to submit their work electronically either directly to Turnitin.com or via an online learning platform (e.g. A2L, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty.

Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software. **All submitted work is subject to normal verification that standards of academic integrity have been upheld** (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com please go to www.mcmaster.ca/academicintegrity.

Copyright and Recording

Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, **including lectures** by University instructors

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

Academic Accommodation for Religious, Indigenous or Spiritual Observances (RISO)

Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the [RISO](#) policy. Students should submit their request to their Faculty Office **normally within 10 working days** of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests.

Academic Integrity Statement

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. **It is your responsibility to understand what constitutes academic dishonesty.**

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. For information on the various types of academic dishonesty please refer to the [Academic Integrity Policy](#), located at <https://secretariat.mcmaster.ca/university-policies-procedures-guidelines/>

The following illustrates only three forms of academic dishonesty:

- plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained.
- improper collaboration in group work.
- copying or using unauthorized aids in tests and examinations.

Conduct Expectations

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the [Code of Student Rights & Responsibilities](#) (the "Code"). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, **whether in person or online**.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students' access to these platforms

Academic Accommodation of Students with Disabilities

Students with disabilities who require academic accommodation must contact [Student Accessibility Services](#) (SAS) at 905-525-9140 ext. 28652 or sas@mcmaster.ca to make arrangements with a Program Coordinator. For further information, consult McMaster University's [Academic Accommodation of Students with Disabilities](#) policy.

Faculty of Social Sciences E-mail Communication Policy

Effective September 1, 2010, it is the policy of the Faculty of Social Sciences that all e-mail communication sent from students to instructors (including TAs), and from students to staff, must originate from the student's own McMaster University e-mail account. This policy protects confidentiality and confirms the identity of the student. It is the student's responsibility to ensure that communication is sent to the university from a McMaster account. If an instructor becomes aware that a communication has come from an alternate address, the instructor may not reply at his or her discretion.

Course Modification

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

his/her McMaster email and course websites weekly during the term and to note any changes.

Extreme Circumstances

The University reserves the right to change the dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions, etc.). Changes will be communicated through regular McMaster communication channels, such as McMaster Daily News, A2L and/or McMaster email.

Last update: 3 December 2022