

ECO314H1 F

Energy and the Environment

Fall 2025 Syllabus

Course Meetings

ECO314H1 F

Section	Day & Time	Delivery Mode & Location
LEC0101	Monday, 9:00 AM - 12:00 PM	In Person: FE 230

Refer to ACORN for the most up-to-date information about the location of the course meetings.

Course Contacts

Instructor: Professor Adonis Yatchew

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Office Hours and Location: In person and online. Hours to be announced.

Course Overview

This course surveys important features of energy markets and related environmental challenges. One of the central objectives is to provide an understanding of the key economic tools needed to analyse these markets. A related objective is the development of a framework for understanding the public discourse on energy and the environment. Topics include: the hydrocarbon economy (oil, natural gas and coal), electricity markets, global warming and other externalities, renewable energy, conservation, carbon taxes and 'cap-and-trade'.

Tariffs, geopolitical conflicts and AI dominate the news. Climate change continues to be a most pressing issue with evidence of little progress. This course surveys important features of energy markets and related environmental challenges in a rapidly changing world. One of the central objectives is to provide an understanding of the key economic tools needed to analyse these markets and to develop an appreciation for the political and geoeconomic centrality of energy issues. A related objective is the development of a framework for understanding the public discourse on energy and the environment. Topics include the hydrocarbon economy (oil, natural gas, and coal), electricity markets, global warming and other externalities, renewable energy and conservation, carbon pricing, sustainability and the geopolitics of energy.

Course Learning Outcomes

1. Broad overview of major areas of energy economics and related environmental issues.
2. Brief review of important economic tools used to analyse energy markets.
3. Understanding public discourse on energy and environmental debates, (e.g., decarbonization, fracking, renewable energy, markets v. regulation, geopolitics ...).

4. Facility with data resources on energy and related environmental issues.

Prerequisites: ECO200Y1/ECO204Y1/ECO206Y1; ECO220Y1/ ECO227Y1/ (STA237H1, STA238H1)/ (STA247H1, STA248H1)/ (STA257H1, STA261H1)

Corequisites: None

Exclusions: None

Recommended Preparation: None

Credit Value: 0.5

Marking Scheme

Assessment	Percent	Details	Due Date
Survey	5%	In-class survey.	2025-09-15
Midterm	25%		2025-10-06
Assignment 1	15%		2025-10-20
Assignment 2	20%		2025-11-23
In-Person Final Exam	35%		Final Exam Period

Late Assessment Submissions Policy

Late penalties on assignments and papers will be 10% per day (e.g., if the submission is worth 100 marks, the daily penalty will be 10 marks).

Policies & Statements

Late/Missed Assignments

This item is listed here to remind you to include your late/missed assignment policy; if you have late penalties, you are required to publish them in your syllabus. Please see the [A&S Academic Handbook \(https://www.artsci.utoronto.ca/faculty-staff/teaching/academic-handbook\)](https://www.artsci.utoronto.ca/faculty-staff/teaching/academic-handbook) sections on missed term work (Section 4.7), late term work and extensions (section 4.8), and missed term tests (Section 5.3) for more information.

Plagiarism Detection Tool

Normally, students will be required to submit their course essays to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>).

Plagiarism Detection Applies to Assignments

Normally, students will be required to submit their course assignments to the University's plagiarism detection tool for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their submitted work to be included as source documents in the tool's reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of this tool are described on the Centre for Teaching Support & Innovation web site (<https://uoft.me/pdt-faq>)."

<https://teaching.utoronto.ca/resources/plagiarism-detection/#conditions>