

THE ECONOMICS OF CLIMATE CHANGE

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Contents

This course will introduce stylized facts about the environment and climate change breaking down its many challenges and seeing what economics research has done to address them. We will learn about the economic damage of climate change and the theoretical models that clarify the policy problems. Part of the course will be the developing and carrying out of empirical economic research.

Course schedule

The science of climate change Emissions scenarios and options of emissions reductions	Tol, R. S. J. (2023). Climate economics: Economic analysis of climate, climate change, and climate policy (3rd ed.). Edward Elgar Publishing. Chapter 1 and Chapter 2 Lecture notes
The Kaya identity The abatement costs	Tol, R. S. J. (2023). Climate economics: Economic analysis of climate, climate change, and climate policy (3rd ed.). Edward Elgar Publishing. Chapter 3 Lecture notes
Impacts and Adaptation	Tol, R. S. J. (2023). Climate economics: Economic analysis of climate, climate change, and climate policy (3rd ed.). Edward Elgar Publishing. Chapter 5 and Chapter 6 Lecture notes
Optimal climate policy	Tol, R. S. J. (2023). Climate economics: Economic analysis of climate, climate change, and climate policy (3rd ed.). Edward Elgar Publishing. Chapter 8 Lecture notes
Discounting and Uncertainty	Tol, R. S. J. (2023). Climate economics: Economic analysis of climate, climate change, and climate policy (3rd ed.). Edward Elgar Publishing. Chapter 9 and Chapter 10 Lecture notes

Bimester: October-November

Additional suggested readings:

Grubb, M. Planetary Economics.

Stern, N. The Economics of Climate Change: The Stern Review.

Mendelsohn, R. Climate Change and Agriculture: An Economic Analysis of Global Impacts, Adaptation and Distributional Effects.