Syllabus: Environmental Economics

Instructor: Till Requate, Prof of Economics, Kiel University

Short description: This course discusses advanced topics in environmental economics by starting to discuss the functioning of the most prominent environmental policy instruments, notably command and control, emission taxes, and tradable emission allowances. We further discuss repercussions to product markets, imperfect competition and address international environmental problems, notably climate policy. We also discuss pre-existing distortions and long term investment incentives. Finally, we give an introduction to dynamic problems, notably accumulating pollutants.

Lecture 1: Markets, Welfare, the Problem of Externalities, and a survey of most important pollutants. (Based on Chapters 1 and 2 in Phaneuf & Requate)

Time: Monday, April 4, 14:15 – 16, Room: 212, Ullevål

Q&A session (optional): Monday, April 4, 16:15 – 17, Room: 212 Ullevål

Lecture 2: The Workhouse Model of Environmental Economics and Environmental Policy Instruments (Based on Chapter 3 and 8 in Phaneuf & Requate)

Time: Tuesday, April 5, 10:15 – 12, Room: 212, Ullevål

Lecture 3: Environmental Policy under Imperfect information (Based on Chapter 4 in Phaneuf & Requate)

Time: Tuesday, April 5, 14:15 – 16, Room: 212, Ullevål

Q&A session (optional): Tuesday, April 5, 16:15 – 17, Room: 212, Ullevål

Lecture 4: Repercussions on Output Markets and market power (Based on Chapter 5 and 6 in Phaneuf & Requate)

Time: Wednesday, April 6, 10:15 – 12, Room: 212, Ullevål

Lecture 5: International Environmental Problems (Based on Chapter 7 in Phaneuf & Requate)

Time: Wednesday, April 6, 14:15 – 16, Room: 212, Ullevål

Q&A session (optional): Wednesday, April 6, 16:15 – 17, Room: 212, Ullevål

Lecture 6: Environmental Policy with pre-existing distortions (Based on Chapter 12 in Phaneuf & Requate)

Time: Thursday, April 7, 10:15 – 12, Room: 212, Ullevål

Lecture 7: Dynamic problems, notably accumulating pollutants (Based on Chapter 13 in Phaneuf & Requate)

Time: Thursday, April 7, 14:15 – 16, Room: 207, Ullevål

Q&A session (optional): Thursday, April 7, 16:15 – 17, Room: 207, Ullevål

Literature:

Phaneuf, D. and Requate, T.: A Course Environmental Economics: Theory, Policy and Practice, Cambridge University Press 2017

Charles Kolstad Environmental Economics, Oxford University Press, 2010

Roger Perlman, Yue Ma, James McGilvray, and Michael Common: Natural Resource and Environmental Economics, Pearson Education, 3rd Edition, 1996

Champ, Patricia A., Boyle, Kevin J., Brown, Thomas C. (Eds.) : A Primer on Nonmarket Valuation, Springer, 2003

Endress, Alfred: Environmental Economics - Theory and Policy, Cambridge and New York (Cambridge University Press), 2011