**Antalya Bilim University**

**Department of Economics, ECON1313**

**Environmental and Ecological Economics**

**Fall 2021**

**Class time& Place: Monday 13:30-16:20**

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Assistant Professor

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This course is designed to introduce you to environmental and natural resource management. We will investigate basic causes and consequences of environmental problems from a theoretical and conceptual framework. In this course we will investigate economic concepts to understandnatural resource and environmental problems. We will explore topics such as resource scarcity, externalities, property rights, opportunity cost, sustainability, non-market valuation and social cost-benefit analysis. Also a part of the course will be devoted to optimal management of exhaustible and renewable resources, including energy, water resources, land and ecosystem services.

**Course book\*:**

# Natural Resource and Environmental Economics 4th Edition

Authors: [Dr Roger Perman](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_1?ie=UTF8&text=Dr+Roger+Perman&search-alias=books-uk&field-author=Dr+Roger+Perman&sort=relevancerank), [Dr Yue Ma](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_2?ie=UTF8&text=Dr+Yue+Ma&search-alias=books-uk&field-author=Dr+Yue+Ma&sort=relevancerank), [Dr Michael Common](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_3?ie=UTF8&text=Dr+Michael+Common&search-alias=books-uk&field-author=Dr+Michael+Common&sort=relevancerank), [Dr David Maddison](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_4?ie=UTF8&text=Dr+David+Maddison&search-alias=books-uk&field-author=Dr+David+Maddison&sort=relevancerank), [Dr James Mcgilvray](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_5?ie=UTF8&text=Dr+James+Mcgilvray&search-alias=books-uk&field-author=Dr+James+Mcgilvray&sort=relevancerank).

*\*This textbook is comprehensive and only selected chapters will be used for the class.*

**Recommended readings:**

Additional reading material will be provided.

**Developing Graduate Attributes**

At the end of the course you are expected to be able to be able to apply economic principles to problems involving public and private natural resources and the environment. You will also be able to explain environmental problems using graphical analysis and written and verbal communication.

**Important Issues about the Course**

**a) Preparation**

***“By failing to prepare, you are preparing to fail.”*** (Benjamin Franklin)

I expect from you to work regularly and to behave in a ethically correct way during the classes. Before coming to the classes, all of you should have read the subject indicated in the syllabus for that class date.

**b) Class Attendance and Participation**

Class attendance and participation are important in order to be successful in this course. It is a well known fact that participation to class discussions is very important in learning process so all of you are encouraged to participate the disscussions and to ask questions during the class.

**d) Midterm and Final Exams**

The grades taken from midterm and final exams will be evaluated as 40% and 60% respectively. For the midterm exam, you will be responsible for all class material covered until the exam. The final exam is cumulative and will focus on all units and topics studied throughout the course, but emphasis will be from the part after midterm. In order to pass, the weighted average of the exams should be 50 out of 100.

**Course Schedule**

**WEEK 1 Introduction**

**WEEK 2 Basic Definitions of Environmental Economics and Origins of Environmental Problems**

**WEEK 3 Market Failures, Externalities and Internalizing the Externalities**

**WEEK 4 Fundamental Definitions Used in the Analysis of Environmental Policy Tools**

**WEEK 5 Methods of Command and Control**

**WEEK 6 Environmental Taxes (Waste Taxes)**

**WEEK 7 Tradeable Pollution Permis**

**WEEK 8 Midterm Exam**

**WEEK 9 Evaluation of Environmental Policy Tools and Recycling**

**WEEK 10 Global Warming**

**WEEK 11 Policy Tools to Fight with Global Warming**

**WEEK 12 Sustainable Development and Ecological Footprint**

**WEEK 13 Macroeconomic Approach to Environmental Problems**

**WEEK 14 Environmental Policy Development in Turkey and Institutions**