**Syllabus**

Fall 2019

Environmental Economics

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| **Instructor:** RahatSabyrbekov | **Email:** sabyrbekov\_r@auca.kg **Room:** 316 |

**Course Description:**

Lectures and exercises will address the following issues: Economy - environment interactions, sustainable development, optimal management of renewable and non-renewable resources, pollution targets and pollution control, environmental policy instruments, international environmental agreements. The course also draws on the environmental management challenges in the Kyrgyz Republic, namely water, energy and pasture management.

**Course objective:** Candidates should be able to apply economic theory to analyze environmental and natural resource management issues. These issues include: economy - environment interactions, sustainable development, optimal management of renewable and non-renewable resources, pollution targets and pollution control, environmental policy instruments, and international environmental agreements.

**Number of credits:** 6

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| Midterm exam | 35% |
| Group project/Paper | 25% |
| Final exam | 40% |

**Main required texts:**

* Environmental and Natural Resource Economics, Tom Tientenberg & Lynne Lewis, 11th Edition
* Academic papers uploaded to the e-course folder.

I reserve a right to revise the schedule and the reading assignments (without increasing the workload) and if I do so, I will consult the students and present my justifications.

**Grading scale:**

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| “A” - above 85.5 “A-” - 85.0-80.5 “B+” - 75.5-80.0 “B” - 70.5-75.0“B-” - 67.0-70 | “C+” - 60.0-66.5 “C” - 55.0-59.5 “C” - 50.0-54.5 “D” - 45.0-49.5“F” - 45.0 and below |

**Book Chapters**

1. Visions of the Future
2. The Economic Approach: Property Rights, Externalities, and
Environmental Problems
3. Evaluating Trade-Offs: Benefit-Cost Analysis and Other
Decision-Making Metrics
4. Valuing the Environment: Methods
5. Dynamic Efficiency and Sustainable Development
6. Depletable Resource Allocation: The Role of Longer Time
Horizons, Substitutes, and Extraction Cost
7. Energy: The Transition from Depletable to Renewable Resources
8. Recyclable Resources: Minerals, Paper, Bottles, and E-Waste
9. Ecosystem Goods and Services: Nature’s Threatened Bounty
10. Economics of Pollution Control: An Overview
11. Stationary-Source Local and Regional Air Pollution
12. Mobile-Source Air Pollution
13. Climate Change
14. The Quest for Sustainable Development