

Course Syllabus

Course code	ECON130132.01	Compiled date	2016.12	
Course title (Chinese)	环境经济学			
Course title (English)	Environmental Economics			
Credits	3	Total hours	3	
Instructor	Li Zhiqing	Department	School of Economics	
Semester	7th	Contact email	zhiqingli@fudan.edu.cn	
Prerequisite courses	Micro Economics and Macro Economics			
(A) Classification of the course				
Comprehensive	<input type="checkbox"/>	Fundamental	<input type="checkbox"/>	
Compulsory	<input type="checkbox"/>	Elective	<input checked="" type="checkbox"/>	
		Other	<input type="checkbox"/> _____	
(B) Course objectives and contents				
<p>This course provides a survey of listed issues regarding the management of natural resources and the protection of environmental quality, from the perspective of economics. The course will apply economics models into the questions including the origins of natural resources and the protection of environmental quality, the related policies, methods and institutional arrangement. The course focus on both conceptual and methodological topics and most recent and current applications based on the economic concepts and analytic frameworks.</p>				
(C) Textbooks and references (at least five)				
NO.	Author	Title	Publisher	Year
1	Tietenberg, Tom and Lynne Lewis.	Environmental and Natural Resource Economics	Boston: Pearson Education, Inc.,	2015
2	Stavins, Robert N., ed.	Economics of the Environment: Selected Readings, Fifth Edition.	New York, New York: W. W. Norton & Company,	2005
3	Charles D.	Environmental Economics	Oxford University Press	2011

	Kolstad			
4	Wallace Oates	The RFF Reader in Environmental and Resource Policy	Washington D.C. RFF	2006
5	William J. Baumol	The Theory of Environmental Policy	Cambridge University Press; 2 edition	1988

(D) Teaching arrangement and key points

Chapter	Hour	Contents and key points	Text/ reference	Homework and questions
1 Introduction	3	understanding the relationship btw. Economics and population, natural resource and environment	Tietenberg (2009) chapter 1; William J. Baumol (1988) chapter 1; Charles D. Kolstad (2011) chapter 1; Stavins, Robert N (2005) Part 1;	Readings for 2nd chapter;
2 Property rights, externalities, and environmental problem	6	Understanding the relationship btw. property rights and externalities on environmental protection.	Tietenberg (2009) chapter 4; William J. Baumol (1988) Part 2; Charles D. Kolstad (2011) chapter 5 and 6; Stavins, Robert N (2005) Part 5;	Readings for 3 rd chapter; discuss the impacts of property rights and externalities on environmental protection.
3 Valuing the environment: concepts	3	Understanding the evolution of environmental valuing	Tietenberg (2009) chapter 2;	Readings for 4 th chapter;
4 Valuing the environment: methods	6	Understanding The method of valuing the environment	Tietenberg (2009) chapter 3; Charles D. Kolstad (2011) chapter 16; Stavins, Robert N (2005) Part 2;	Readings for 5th chapter;and discuss the marketlization of environmental value;
5 Dynamic efficiency and sustainable development	6	Understanding the connection of dynamic efficiency and sustainable development	Tietenberg (2009) chapter 5; William J. Baumol (1988) chapter 11; Charles D. Kolstad (2011) chapter 4; Stavins, Robert N (2005) Part 3;	Readings for 6th chapter;

6 The allocation of depletable and renewable resources: an overview	3	Understanding the nature of The allocation of depletable and renewable resources	Tietenberg (2009) chapter 6 ; William J. Baumol (1988)chapter 9; Stavins, Robert N (2005) Part 6;	Readings for 7th chapter;
7 Energy: the transition from depletable to renewable resources	3	Understanding the evolution of energy use	Tietenberg (2009) chapter 7;	Readings for 8th chapter;
8 Storable, renewable resources: forests	6	Understanding the nature of The forests allocation	Tietenberg (2009) chapter 9;	Readings for 9th chapter;
9 Economics of pollution control: an overview	6	Understanding the economic nature of The environmental pollution;	Tietenberg (2009) chapter 11; Charles D. Kolstad (2011) chapter 8	Readings for 10th chapter; discussing the origin of environmental pollution;
10 Stationary-source local air pollution	3	Understanding the economic nature of The air pollution;	Tietenberg (2009) chapter 12; Charles D. Kolstad (2011) chapter 10;	Readings for 11th chapter;
11 The quest for sustainable development	3	Understanding the linkage of environmental protection and economic development;	Tietenberg (2009) chapter 16; Stavins, Robert N (2005) Part 9;	discussing the linkage of environmental protection and economic development;

(E) Grading

Check Forms Check in 10% Homework 30%
 Midterm exam 30% Final exam 30%

Exam form Open-book Closed-book Other

(F) Online sources

(The website of network classroom and other websites related to the course are available for students, with auxiliary teaching material.

The instructor who has set up the network classroom in the virtual campus, the modern technology education center or in the department's website should make the resources open to the students as more as possible.)

(G) A brief introduction of the instructors (200-300 words):

Dr. Li Zhiqing's researches and teaching focus on environmental economics mainly. He delivers 'environmental economics' and 'economics of energy & climate change' for undergraduate. He also teaches 'environmental economics', 'carbon pricing and management: theories and practices' and 'Modern China's Economy' for graduates. He published dozens of papers, articles on journal, reports and several books. Dr. Li is also playing an active role in developing the low carbon economy theory and practice in China.

*If the course is provided by several instructors, please indicate the one responsible for the course.