

# Environmental and Resource Economics 565EconS

Second semester, 2023-2024, Section: 71720

## Instructor Information

Instructor	Email	Office Location & Hours
Nawwaf M. Aljulaifi	naljulaifi@ksu.edu.sa	S209, M & W, 12-1:30PM, and by appointment
Prerequisite Course	Phone	Lectures
NONE		CBA 76, Wednesday. 10:00AM -1:50PM
1st Midterm exam	2nd midterm exam	Final Exam
10/18/2023		TU, 02/16/2024-1444/06/08, 10:30AM

## General Information

### *Course Rational*

This course in Natural Resources and Management Economics prepares master students for further study in the field. The focus of this course is that studying approaches to analyzing of costs and benefits, monetary valuation of the environment, pollution and sustainable development, externalities, optimal utilization of renewable and non-renewable natural resources.

### *Expectations and Goals*

The major objectives of this class are:

- I. Identify and understand the basic foundations and development of Economics and environment, the economic principles, and models of managing renewable and non-renewable natural resources
- II. Knowledge and recognition of economic tools of analysis and their use with externalities, economic efficiency, and market failure.
- III. Apply a theoretical and applied approaches and theoretical to the globalization of externalities.
- IV. The course presumes that students are familiar with microeconomic theory, game theory, and some econometrics. Conduct in-depth analysis of methods of valuation of the environmental benefits, pitfalls of the alternative methods of valuation by use of the relevant economic concepts, theories, and graphical and quantitative methods.

## Course Materials

### Required Materials (Texts and assigned Reding)

#### English:

- I. **T:** Tietenberg, T. H., & Lewis, L. (2018). Environmental and natural resource economics. Routledge (11<sup>th</sup> Edition).

#### Arabic:

- I. **NRE:** Abdullah, Mohammed Hamed, The Natural Resources and The Environment, King Saudi University, Riyadh (2000).
- II. **ENRE:** AL-Sheikh, Hamad, Economics of Natural Resources and the Environment, Alobeikan Publications, Riyadh (2007).

*You are not expected to read everything that is on this list.* However, the readings marked with a "snow flake" should be read in advance of the corresponding class.

### Assignments and Evaluation

Two midterms exam and three assignments will count 15% (for each exam) and 30% respectively in determining the course grade Midterms and final makeup's are possible only if reasons beyond the student's control can be verified. Please note that all items in this syllabus are subject to change at the discretion of the professor.

### Grading Scale

Assignments	Number	Percentage
Homework	3	45%
One Midterms	1	15%
Final Exam	1	40%
Total	6	100%

<b>A+</b>	<b>95-100</b>
<b>A</b>	90-94
<b>B+</b>	85-89
<b>B</b>	80-84
<b>C+</b>	75-79
<b>C</b>	70-74
<b>D+</b>	65-69
<b>D</b>	60-64
<b>F</b>	<60

*Tentative Class Calendar and Topics:*

Date		Topic	Assignment
Week 1 1444/5/10 2022/12/4		Introduction	<b>Ch:1,2,&amp;3 ENRE</b>
Week 2 1444/5/17 2022/12/11		The Economic Approach: Property Rights, Externalities, and Environmental Problems	<b>CH:2 T</b>
Week 3 1444/5/24 2022/12/18		Evaluating Trade-Offs: Benefit-Cost Analysis and Other Decision-Making Metrics <b>(Break)</b>	<b>Ch:3 T (Break)</b>
Week 4 1444/6/1 2022/12/25 <b>HW1</b>		Evaluating Trade-Offs: Benefit-Cost Analysis and Other Decision-Making Metrics Valuing the Environment: Methods	<b>Ch:3 T Ch:4 T HW1</b>
Week 5 1444/6/8 2023/1/1		Dynamic Efficiency and Sustainable Development	<b>Ch:5 T</b>
Week 6 1444/6/15 2023/1/8		Energy The Transition from Depletable to Renewable Resources	<b>Ch:7 T</b>
Week 7 1444/6/29 2023/1/22 <b>HW2</b>		Recyclable Resources: Minerals, Paper, Bottles, and E-Waste	<b>Ch:8 T HW2</b>
Week 8 1444/7/7 2023/1/29		Water: A Confluence of Renewable and Depletable Resources A Locationally Fixed, Multipurpose Resource Land Storable, Renewable Resources: Forests	<b>Ch:9 T Ch:10 T Ch:11 T</b>
Week 9 1444/7/14 2023/2/5 <b>HW*</b> <b>1<sup>st</sup> Midterm</b>		Common-Pool Resources (CPR)	<b>CH:12 T HW*</b> <b>1<sup>st</sup> Midterm</b>
Week 10 1444/7/21 2023/2/12		Economics of Pollution Control: An Overview Air pollution, Mobile-Source, Climate Change, and Water Pollution	<b>Ch:14 T</b>
Week 11 02/16/2023-1444/07/25		<b>Final Exam for 565EconS</b>	<b>Final Exam for 565EconS</b>

### ***Program Languages needed***

Mathematica and State or any other programs you feel comfortable to use.

### ***Disability Resource Accommodation:***

Disability Resource Accommodation: Reasonable accommodations are available for students who have a documented disability. Please notify the instructor the first week of class of any accommodations needed for the course. Late notification may cause the requested accommodations to not be available. All accommodations must be approved through Students with Special Needs Services (King Saud University). Please text +966114675035 (WhatsApp) or call 0114675584 to make an appointment with a disability specialist <https://dar.ksu.edu.sa/ar/Disability>, or at @KsuNeeds (Twitter)

### ***Academic Honesty:***

As an institution of higher education, King Saud University is committed to principles of truth and academic honesty. All members of the University community share the responsibility for maintaining and supporting these principles. When a student enrolls in King Saud University, the student assumes an obligation to pursue academic endeavors in a manner consistent with the standards of academic integrity adopted by the University. To maintain the academic integrity of the community, the University cannot tolerate acts of academic dishonesty including any forms of cheating, plagiarism, or fabrication. King Saud University reserves the right and the power to discipline or to exclude students who engage in academic dishonesty. To that end, the University has established the following rules defining prohibited academic dishonesty and the process followed when such behavior is alleged. These rules. King Saud University 's Academic Integrity Policy, the University-wide document establishing policies and procedures to foster academic integrity. This policy is applicable to undergraduate and graduate students alike, as it pertains to dishonesty in course work and related academic pursuits. In cases of dishonesty in research and original scholarship, the University's Policy and Procedural Guidelines for Misconduct in Research and Scholarship may take precedence over the policies and procedures contained herein. Academic dishonesty includes cheating, plagiarism, and fabrication in the process of completing academic work. These standards should be interpreted by students as general notice of prohibited conduct. They should be read broadly and are not designed to define misconduct in exhaustive forms.

**Disclaimer: This syllabus is subject to change to facilitate instructional and/or student needs.**