



UNIVERSIDAD LIBRE®

Personería Jurídica No. 192 de 1946 de Mingobierno
Nit.: 860.013.798-5



FREE UNIVERSITY PEREIRA SECTION

UNDERGRADUATE PROGRAM IN ENVIRONMENTAL ENGINEERING



SUBJECT: ENVIRONMENTAL ECONOMY

CODE: -----

SEMESTER: EIGHTH

HOURS WEEKLY: 4

THEORETICAL: 4

PRACTICES: 0

**PREREQUISITES: ECONOMY,
ECONOMIC ENGINEERING**

CO-REQUISITES:

GOALS:

Provide the student with the theoretical knowledge that allows him to understand the intentions between the economic activities of society and the environmental system.

Explain macroeconomic concepts and make them understandable for the student can apply them in the analysis of the main economic variables and problems of the binational news.





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Provide the student with economic knowledge that allows him to judge with criteria

financial policies and economic models of both countries

Provide practical tools to determine the environmental costs of a project

development or to measure the environmental costs derived from an economic activity
determined.

Be able to design and evaluate incentive-based environmental policies

economic and contribute to the solution of environmental problems through

application of the knowledge provided by environmental economics.

METHODOLOGY:

The course will be taught through master lectures by the professor, combined with the
carrying out multidisciplinary research work and with the joint analysis of
real examples.



CONTENT:

UNIT ONE: GENERAL CONSIDERATIONS





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Basic Concepts of Economics

Main economic doctrines

Socioeconomic organization of society throughout history

Relationships between micro and macroeconomics

The agents of the economy

UNIT TWO: DEMAND, SUPPLY AND EQUILIBRIUM

General concepts

Indifference curves

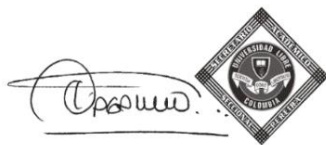
Elasticity of demand

Supply theory

Balance.

UNIT THREE: INTRODUCTION TO ENVIRONMENTAL ECONOMICS

- What is Environmental Economics?
- Economy and Environment
- Natural resource economics
- Economics of pollution
- The fundamental balance



UNIT FOUR: ANALYTICAL TOOLS





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- Benefits and costs
- Supply and demand
- Marginal cost and external costs
- Economic efficiency and markets
- Impact analysis
- Cost-benefit analysis
- Risk analysis

UNIT FIVE: ENVIRONMENTAL POLICIES

- Criteria for evaluating environmental policies
- Efficiency, equity, incentives
- Decentralized policies
- The standards
- Taxes and subsidies
- Negotiable permits

UNIT SIX: INTERNATIONAL AFFAIRS

- Environmental policy in the United States
- Environmental policy in the EEC
- Environmental policy in South America
- International comparisons





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UNIT SEVEN: ECONOMIC DEVELOPMENT AND ENVIRONMENT

- Environmental degradation in developing economies
- Global environmental problems
- The cost of biodiversity
- International agreements
- International trade and the environment



LITERATURE:

FIELD B. Environmental Economics. Introduction. McGraw Hill. Bogotá 1995

MILLER A. GAIA Connections. An introduction to ecology, ecoethics, and economics

De. Lanham, Md. 1991

ENTHOVEN A. Pollution, Resources, and the Environment. Norton, New York, 1973

KNEESE R. Natural Resource and Environmental Economics. Earthscan Publication,
London, 1995.

