



University of Nicosia, Cyprus

Course Code BIOL-451	Course Title Environmental Health	ECTS 6
Department Life and Health Sciences	Semester Spring/Fall	Prerequisites BIOL-231 Biostatistics
Type of Course Elective	Field Health	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 3 rd or 4 th	Lecturer Dr. Hajipanagis Adamos
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

This course aims to provide a scientific understanding of concepts of environmental risk factors to health and possible approaches to control exposure to these factors. The main objectives of the course are to:

- Make students aware of environmental contaminants (chemical, physical, biological) and how these are disseminated (solid and hazardous wastes) to endanger human health.
- Show the relationship between environmental contaminants and aspects of health.
- Discuss the biomarkers and risk analysis methods used to assess environmental threats to human health.
- Review the scientific basis for policy decisions and identify emerging global environmental health problems

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Differentiate the major sources and nature of potentially harmful agents and explain how they may end up affecting human health.
2. Describe the interactions of these agents with biological systems and how they exert their effects.
3. Explain and use prediction models to estimate the magnitude of adverse effects of these agents on biological systems.
4. Identify and define risk-assessment procedures and risk-management processes employed in environmental health management.
5. Identify current legislation and regulations regarding environmental health issues.

6. Identify areas for further research regarding the health effects of environmental agents and the areas of uncertainty in the risk-assessment process.

Course Contents:

1. Introduction to the human impact on the environment.
2. Environment-human interactions
3. Environmental impact on humans
4. Environmental toxicology
5. Environmental carcinogens
6. Risk assessment and management
7. Air-pollution effects
8. Food and water-borne diseases
9. Municipal, industrial and hazardous waste
10. Economics, policy and law regarding environmental health
11. Occupational Health
12. Risk communication

Learning Activities and Teaching Methods:

Lectures, Cooperative learning, Case studies discussions

Assessment Methods:

Exercises, Assignments, Mid-term Exam; Final Exam

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
1. A. Yassi, T. Kiellstrom, T. Kok, T. Gidotti	Basic Environmental Health	Oxford University Press	2001	ISBN-019513558X
2. Inge F. Goldstein, Martin Goldstein	How much risk? : a guide to understanding environmental health hazards	Oxford University Press	2002	ISBN: 0195139941

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
1. Ernest Hodgs	A textbook of modern toxicology	John Willey	2004, 4 th ed.	ISBN-: 047126508X
2. Anne Nadakavukare	Our global environment : a health	Waveland Press	2006, 6 th ed.	ISBN:1577664027

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