



Course Code ENVM-330	Course Title Ecology and Environmental Quality	ECTS Credits 6
Department Life and Health Sciences	Semester Fall	Prerequisites None
Type of Course Major Requirement	Field Environmental and Energy Management	Language of Instruction English
Level of Course 1 st Cycle	Year of Study 3 rd	Lecturer(s) Dr Iris Charalambidou
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The aims of this course are to enable students to . . .

1. explore, investigate and develop an understanding of major concepts and principles of ecological science
2. study the applications of ecology in conservation and resource management
3. practice a range of graduate skills, including discipline-specific skills

Learning Outcomes:

On completion of this course, successful students will be able to:

1. explain the principles of population and community ecology
2. explain the functioning of freshwater aquatic ecosystems and terrestrial ecosystems
3. apply experimental and quantitative approaches to the recording, analysis and interpretation of ecological systems
4. undertake practical investigations of selected ecosystems using appropriate methodologies
5. demonstrate an understanding of ecological principles and their applications
6. produce competent laboratory/fieldwork reports, including data evaluation and literature-based reports

Course Content:

This course investigates various ecological systems, both freshwater and terrestrial, with a particular focus on ecosystem, community and population dynamics. There is a strong emphasis on practical applications of ecological science. Topics covered include woodland, terrestrial ecology, Mediterranean scrub, freshwater ecology and population ecology; aspects of environmental quality in terrestrial and freshwater environments including examination of pollutants and eutrophication.

Teaching Methods:

PPT Lectures, Videos, Readings, In-class discussion, fieldtrips, practicals

Assessment Methods

Assignments, mid-term exam, final exam

Required Textbooks:

Authors	Title	Publisher	Year	ISBN
Begon M., Harper J. & Townsend C.	<i>Ecology: from individuals to ecosystems</i>	Blackwell Scientific	2005	
Dobson M. & Frid C.	<i>Ecology of aquatic systems</i>	Longman	1998	
Harrison R.M. (Ed.)	<i>Pollution causes, effects and control</i>	Royal Society of Chemistry	2001	
Thomas P. & Packham J.	<i>Ecology of woodlands and forests: description, dynamics and diversity</i>	Cambridge University Press	2007	