



<b>Course Code</b> ENVM-110	<b>Course Title</b> Ecosystems and Environmental Change	<b>ECTS Credits</b> 6
<b>Department</b> Life and Health Sciences	<b>Semester</b> Spring	<b>Prerequisites</b> None
<b>Type of Course</b> Major Requirement	<b>Field</b> Environmental and Energy Management	<b>Language of Instruction</b> English
<b>Level of Course</b> 1 <sup>st</sup> Cycle	<b>Year of Study</b> 1 <sup>st</sup>	<b>Lecturer(s)</b> Dr Iris Charalambidou
<b>Mode of Delivery</b> face-to-face	<b>Work Placement</b> N/A	<b>Co-requisites</b> None

### **Objectives of the Course:**

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

1. understand the basic structure and functioning of ecosystems
2. understand the impacts of selected anthropogenic activities on ecosystems
3. practice a range of Graduate Skills, including discipline specific skills

### **Learning Outcomes:**

On completion of this course, students are expected to:

1. understand the major structural and functional aspects of selected ecosystems
2. understand the role of the major biogeochemical cycles
3. understand the ways in which ecosystems respond to natural and human-induced environmental change
4. gather, analyse and present ecological data in an appropriate way
5. execute a practical investigation to test an hypothesis
6. write up a scientific investigation

**Course Content:**

The course includes: biogeography, climate/vegetation patterns, ecological process, structure and functioning of selected ecosystems (e.g. woodlands, Mediterranean scrub land, agro-ecosystems, aquatic ecosystems), human influences on ecosystems (including examples of management), climate change and air pollutants (impacts on ecosystems), handling of ecological data, descriptive statistics.

**Teaching Methods:**

PPT Lectures, Videos, Readings, in-class discussions, practicals, fieldwork

**Assessment Methods**

Assignments, mid-term exam, final exam

**Required Textbooks:**

<b>Authors</b>	<b>Title</b>	<b>Publisher</b>	<b>Year</b>	<b>ISBN</b>
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	