

Code: 1677 Ecology**Degree:** All, except Food Science and Engineering**Curricular Year:** 2nd**Credits:** 6 ECTS**Language:** Portuguese/English**Prerequisites:** Physics II (except Landscape Architecture)**Responsible:** João Manuel Dias dos Santos Pereira**Other lecturer(s):** Miguel Pedro de Freitas Barbosa Mourato, Nuno Renato da Silva Cortez, Pedro Jorge Cravo Aguiar Pinto and Manuel Armando Valeriano Madeira**Web site:** <http://www.isa.utl.pt/home/node/3928>**Semester Course:** 2nd
Compulsory**1. Contact hours:****Lectures 28 Practicals/Laboratory 42 Others 14 Total 84****2. Objectives:**

Fundamental concepts in Ecology in a modern and historical perspective.
A first approach to the study of ecosystems' characteristics and behavior.
Integrating ecosystems in larger spatial scales (landscape, biome).
Critical analysis of human interference in biosphere dynamics.

3. Programme:

Introduction
Populations and their interactions
Communities and their dynamics
Ecosystem processes: Energy fluxes and energy balance
Ecosystem processes: Biochemical fluxes
Earth biomes; Portuguese biomes
Global change in the biosphere

4. Bibliography:**Main Bibliography**

Townsend, C.R., Harper, J.L. & Begon, M. 2000. Essentials of Ecology. Blackwell Sci., Londres.

5. Assessment:

1. Obtaining frequency, ie, admission to final exam, is conditioned by the presence of at least 75% of practical lessons.
2. In some practical classes will be held mini-simple tests, which will focus on the matters addressed in lectures later. The sum of the marks obtained in this way will the weight of 10%.
Note: Working students who have not done the mini-tests will take a final exam with a supplement in order to allow all students to be evaluated on an equal basis.
3. In practice sessions will be conducted not face a research paper on a topic which will soon distribute the written report will be 15% weight in the final result.
4. The final exam is used for elimination and will encompass the whole subject taught (lectures and practical classes) and take the weight of 70%.

6. Estimated Workload:

168	Hours
-----	-------

7. Last Update:

17/3/2011
