**Health and Environment**  
**2015/2016**

**Code:** 100747  
**ECTS Credits:** 6

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<th>Degree</th>
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<td>2500250 Biology</td>
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**Contact**

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Email: Cristina.Santos@uab.cat

**Use of languages**

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: No  
Some groups entirely in Spanish: No

**Other comments on languages**

The main vehicular language will be Catalan. The seminar in large group will be in Catalan, Castilian or English, depending on the invited speaker. The work of the course can be done in Catalan, Castilian or English.

**Teachers**

Assumpció Malgosa Morera

**Prerequisites**

There are no prerequisites.

**Objectives and Contextualisation**

The course of Health and Environment is integrated in the field of Human Biology and, together with the course of Human Biology (second year), give the basics of human biology that can deepen with fourth year courses (Forensic Anthropology, Molecular Anthropology, Human Genetics, Human Origins and Primatology).

In this context, the course of Health and Environment main objective has the study of the different aspects of human variability, both morphologically and physiologically and genetically, with respect to adaptation, acclimatization and adjustment to the environment. The role of different abiotic and biotic factors in the adaptability of the human species is related. Also, it is discussed the issues related to health when the adaptive balance is disturbed.

**Content**

**Unit 1. The human ecosystem**

Introduction to the study of the human ecosystem. Adaptability of the human species.

**Unit 2. The human population**

Unit 3. Epidemiology of human population

Unit 4. Abiotic factors: radiation

Unit 5. Abiotic factors: climate

Unit 6. Abiotic factors: altitude

Unit 7. Biotic factors: nutrition

Unit 8. Biotic factors: disease
Epidemics and endemic diseases. Geographical and historical considerations on infectious diseases. Infectious diseases and molecular variability: malaria, hemoglobinopathies, AIDS ....

Unit 9. Ecogenetics

Unit 10. Teratogens

Unit 11. Urban Ecology