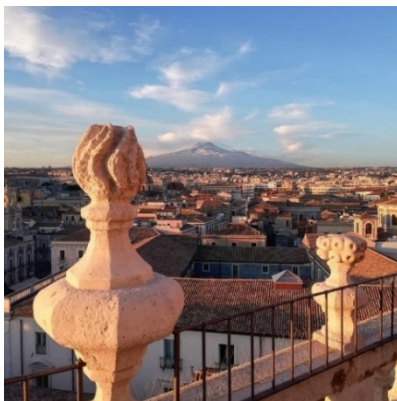


Erasmus opportunities at the Department of Biological, Geological and Environmental Sciences Biological area



Università
di Catania

Nestled against the majestic backdrop of Mount Etna, and in the middle of the Mediterranean, Catania enchants with its rich blend of Baroque architecture, vibrant markets, and a captivating history that stretches back millennia.



Embark on an enriching academic journey at the University of Catania (Italy), where in the frame of the Bachelor's programs in **"Biological Sciences"** and **"Natural and Environmental Sciences"**, and the Master's programs in **"Environmental Biology"** and **"Experimental and Applied Biology"**, there are interesting English class opportunities for Erasmus students - whether you are a Bachelor's or Master's student.

More info:

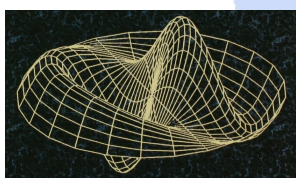
<https://www.dipbiogeo.unict.it/it/content/incoming-students>

PARTIAL DIFFERENTIAL EQUATIONS IN APPLIED SCIENCES

First semester (Oct.- Feb.)

The class aims to develop knowledge on how to construct and understand mathematical models that describe qualitatively and quantitatively some phenomena related to the environment. Knowing how to use the main concepts of differential equation theory for application in the biological, geological and environmental fields.

Prof. Maria Alessandra Ragusa
mariaalessandra.ragusa@unict.it



ECOLOGY AND ECOSYSTEM SERVICES

First semester (Oct.- Feb.)

The class aim is the knowledge of the biosphere as a single large ecosystem in which different species interact each other within their environment. It's well known that ecosystems have to be protected for themselves but they also provide 'ecosystem services' defined internationally as the 'contributions o ecosystems to human well-being'.

Prof. Christian Mulder
christian.mulder@unict.it

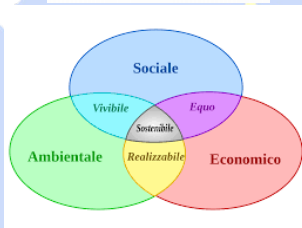


ENVIRONMENTAL ECONOMY

First semester (Oct.- Feb.)

The course focuses on the terminology and basic methods of economic science and environmental economics. The student will become aware of the complexity of environmental problems, and their economic nature.

Prof. (to be assigned)



GLOBAL CLIMATIC CHANGES AND DESERTIFICATION

Second semester (Mar.- Jul.)

The course aims to provide knowledge on climate change and their effects on organisms, communities and ecosystems, analyzing their causes, impacts and future scenarios. The fundamental objective will also be to study the phenomena of desertification, highlighting the causes and the related consequences on biodiversity.

Prof. Christian Mulder
christian.mulder@unict.it



LABORATORY OF ZOOLOGICAL METHODOLOGIES

Second semester (Mar.- Jul.)

Develop skills in the design and implementation of sampling to understand biodiversity, at both the biocenosis and individual species levels. Use key equipment both in laboratory and in the field. Critically process and analyze collected data. Understand principles of museology, including conservation of biological specimens.

Prof. Giuseppe Nicolosi
giuseppe.nicolosi@unito.it



DATA ANALYSIS FOR PUBLIC HEALTH

Second semester (Mar.- Jul.)

This class provides a comprehensive overview of methods and techniques for addressing key public health issues. During the course, students will acquired a complete understanding of statistical tools required for crafting data analysis plans. Also, they will developed communication skills in public health discourse and gained familiarity with biomedical contexts.

Prof. Andrea Giuseppe Maugeri
andrea.maugeri@unict.it



MOLECULAR BIOENERGETICS

Second semester (Mar.- Jul.)

This class aims to provide an integrated view of mitochondrial bioenergetics with emphasis on the molecular aspects of it. The cellular and metabolic role of the mitochondrion will be described with reference to the structural detail of the molecules involved.

Prof. Vito De Pinto
vito.depinto@unict.it



ECOLOGY

Second semester (Mar.- Jul.)

The main aim is the knowledge of the biosphere as a single large ecosystem in which different species, including humans, interact each other within their environment. This involves the understanding of ecological systems as functional units and in particular the flow of energy and cycle of material.

Prof. Christian Mulder - Prof. Erminia Conti
christian.mulder@unict.it erminia.conti@unict.it

Prof. Giuseppe Nicolosi - Prof. Giuseppe Bonanno
giuseppe.nicolosi@unito.it bonanno.giuseppe@unict.it

