COURSE DETAIL

BIOGEOGRAPHY AND MACROECOLOGY
Country Italy
Host Institution University of Bologna
Program(s) University of Bologna
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Geography Environmental Studies
UCEAP Course Number 181
UCEAP Course Suffix
UCEAP Official Title BIOGEOGRAPHY AND MACROECOLOGY
UCEAP Transcript Title BIOGEOG&MACROECOLGY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course is part of the Laurea Magistrale program. The course is intended for advanced level students only. Enrollment is by consent of the instructor. This course examines the development and distribution of the diversity of life on Earth, with a special emphasis on plants. The course explores the spatial scaling of biodiversity, the role of biogeography, and the different levels of assembly organization, from the local to the global scales. Students shall become acquainted with methods for the measurement of biodiversity and its partitioning across scales, as well as the role of biodiversity for ecosystem functioning and stability and relations between biodiversity and climate. The course studies the use of biogeographical and macroecological theories and methods to understand the present strategies for biodiversity conservation. Students gain the capacity to investigate natural systems by means of data collection and analyses and preparation of a written report. The course discusses topics including: an introduction and historical overview; patterns of species distribution and range size; historical biogeography; ecological biogeography; spatial patterns of biodiversity in relation to latitude, climate, and area; relation between energy, productivity, and biodiversity; taxonomic and functional measures of biodiversity; data sources in biogeography and macroecology; partitioning of biodiversity in space and time; island biogeography; and human impacts on biomes and ecosystems; conservation biogeography.

Language(s) of Instruction
English

Host Institution Course Number
88270

Host Institution Course Title
BIOGEOGRAPHY AND MACROECOLOGY

Host Institution Course Details
https://www.unibo.it/en/teaching/course-unit-catalogue/course-unit/2022/434422

Host Institution Campus BOLOGNA
Host Institution Faculty
Host Institution Degree LM in SCIENCES AND MANAGEMENT OF NATURE
Host Institution Department Biological, Geological, and Environmental Sciences
Course Last Reviewed 2022-2023

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