



GEOBOTANY

Enrollment year	2021/2022
Academic year	2021/2022
Regulations	DM270
Academic discipline	BIO/03 (ENVIRONMENTAL AND APPLIED BOTANICS)
Department	DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES
Course	GEOSCIENCES FOR SUSTAINABLE DEVELOPMENT
Curriculum	GEOSCIENZE APPLICATE ALLA GESTIONE DELL'AMBIENTE
Year of study	1°
Period	2nd semester (01/03/2022 - 10/06/2022)
ECTS	6
Lesson hours	60 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	ROSSI GRAZIANO (titolare) - 6 ECTS
Prerequisites	Basic English; Fluent Italian
Learning outcomes	<p>Provide an information base on the distribution of plants on the Planet in relation to environmental and evolutionary factors, as well as on environmental sustainability in both natural and agricultural environment (Agenda 2030, Goal 15 Life on Earth).</p> <p>Learn techniques for detection and monitoring of flora and plant communities.</p>
Course contents	<p>The course covers the following topics:</p> <ul style="list-style-type: none">-Corology: Chorological types, chorological spectra, exotic and native species, floristic inventories, floristic divisions of Earth.-Ecological factors that most influence the distribution of plants.-biological forms and biological spectra.-Performance Indicators and plant ecological indices.- Italian vegetation.

	<ul style="list-style-type: none"> -Structure of plant communities: vertical structure, horizontal structure, temporal ordering. -Classification of Vegetation: physiognomic-structural, by dominant species, by ecological, dynamic, phytosociological use. -Introduction to phytosociology. -Cartography of vegetation. -What are environmental sustainability and biodiversity protection: natural environment and agricultural environment (Agenda 2030, Goal 15 Life on Earth) <p>The course is complemented by field trips.</p>
Teaching methods	Lecture; field excursions
Reccomended or required readings	<p>Strasburger Eduard - Trattato di Botanica. Vol. 2: Evoluzione sistematica ed ecologia.</p> <p>Pignatti S., 1994 - Ecologia del paesaggio. UTET. Torino</p> <p>Pignatti S., 1995 - Ecologia vegetale. UTET. Torino. 531 pp.</p> <p>Ubaldi D., 1997 Geobotanica e Fitosociologia. Clueb. Bologna. 360 pp.</p>
Assessment methods	<p>Examination will consist of a written test, with in itinere tests and an oral test.</p> <p>The written exam is compulsory for all students and provides 5 open questions of up to 15 lines each; Each question is awarded a 4-point score for a total of 30/30.</p> <p>The oral test is optional to improve the score obtained in the written test; The oral test, in the form of an interview, will cover the subjects covered in the written test and the entire course program.</p> <p>Grades of all students (including those who have directly accepted the written test grade without taking the oral exam) will be recorded on the closing date of the final oral exam.</p>
Further information	All the lectures (slides) and other study materials are uploaded on the platform KIRO, available on line to all the students
Sustainable development goals - Agenda 2030	\$ibl legenda sviluppo sostenibile