



# UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Scienze Agrarie, Alimentari e Forestali		
ACADEMIC YEAR	2020/2021		
BACHELOR'S DEGREE (BSC)	FORESTRY AND ENVIRONMENTAL SCIENCES		
SUBJECT	FOREST BOTANY		
TYPE OF EDUCATIONAL ACTIVITY	A		
AMBIT	50122-Discipline biologiche		
CODE	01704		
SCIENTIFIC SECTOR(S)	BIO/02		
HEAD PROFESSOR(S)	VENTURELLA GIUSEPPE	Professore Ordinario	Univ. di PALERMO
OTHER PROFESSOR(S)			
CREDITS	8		
INDIVIDUAL STUDY (Hrs)	132		
COURSE ACTIVITY (Hrs)	68		
PROPAEDEUTICAL SUBJECTS			
MUTUALIZATION			
YEAR	1		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Not mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	VENTURELLA GIUSEPPE Tuesday 09:30 13:30 Dipartimento Scienze Agrarie, Alimentari e Forestali, Viale delle Scienze Ed. 5, ex Istituto di Patologia Vegetale, 1 Piano, Palermo		

**DOCENTE:** Prof. GIUSEPPE VENTURELLA

<b>PREREQUISITES</b>	Basic knowledge on Morphology and Plant Physiology
<b>LEARNING OUTCOMES</b>	Knowledge and ability to understand the issues involved with the national and regional territorial current status of the natural forests and the reforested forest stands. Capacity 'to apply knowledge and understanding in the regional and national territory with particular reference to the management decisions of forest type in protected natural areas. Independent judgment on the choice of forest species. Enable 'communication for the transfer of know-how to the managing bodies of parks and nature reserves. Capacity and learning the issues involved with preservation of forest biodiversity.
<b>ASSESSMENT METHODS</b>	Oral exam. There's an intermediate midterm. The intermediate test consists of a questionnaire of 30 open-ended and multiple-choice questions with evaluation in 30ths on the first part of the course. The student acquires a score that will be mediated with the grade obtained during the final exam. The student prepares a herbarium of dried plants which leads to the exam for discussion. The evaluation of the final exam is also expressed in 30ths. The intermediate test is not compulsory. Students who do not take the exam in itinere will have to discuss all the topics covered during the course at the final exam.
<b>EDUCATIONAL OBJECTIVES</b>	The main objective is to provide to students information useful for the ecological and systematic observation and identification of woody plants and shrubs and the knowledge of their role in the ecosystems. Information are also provided to the students on the effects of global climatic changes, genetic erosion and loss of biodiversity on forest ecosystems. The effects of the introduction of exotic and alien species are also evaluated. The students are involved in field excursion for collecting plants which will be dried and preserved in a personal herbarium to show and discuss in the final test.
<b>TEACHING METHODS</b>	Lessons, field excursions, laboratories, herbarium
<b>SUGGESTED BIBLIOGRAPHY</b>	GROSSONI P. e Gellini R. - Botanica forestale I, II- Cedam.  Appunti a lezione

## SYLLABUS

<b>Hrs</b>	<b>Frontal teaching</b>
3	Forest ecosystem. Woods and Forests. Woody index and coenoses. Climax
3	Vegetation belts and type of vegetation
3	Habitus and systems of branching
2	Trees and shrubs in wet environments
2	Methodologies of filing of Mediterranean arid and Mediterranean belts forest trees
4	Trees and shrubs in the sannitic vegetation belt
8	Flora and vegetation of the Ficuzza natural reserve (Palermo).
4	Trees and shrubs in the colchic and sub-atlantic belt
3	Trees and shrubs in the upper belt of the forest environment
12	Flora and vegetation in the upper vegetation belt of Sicily
2	Final identification and herbarium check
2	Final identification of shrubs and herbarium check
<b>Hrs</b>	<b>Practice</b>
4	Trees and shrubs in the Mediterranean maquis
4	Flora and vegetation in the Park of Favorita (Palermo). observation and collection of trees and shrubs in the Mediterranean maquis
2	Techniques for the preparation of the personal herbarium
<b>Hrs</b>	<b>Others</b>
10	Technical visit in the Park of Madonie (Palermo). observation and collection of trees and shrubs in the colchic and subatlantic belt