

DISSPA - DIPARTIMENTO DI UNIVERSITÀ DEGLI STUDI DI BARI ALDO MORO DISSPA – DIPARTIMENTO DI SCIENZE DEL SUOLO, DELLA PIANTA E DEGLI ALIMENTI





COURSE OF STUDY Techniques of Sustainable Agriculture **ACADEMIC YEAR** 2023/2024 **ACADEMIC SUBJECT** C.I Tree ecosystems – Forest tree ecosystems (8 cfu)

General information				
Academic subject	Forest tree ecosystems			
Degree course	Sustainable Agriculture			
Academic Year	2023/2024			
European Credit Transfer and Acc	sumulation System (ECTS) 3 CFU			
Language	Italian			
Academic calendar (starting and ending date)				
Attendance	Not mandatory, but strongly recommended			

Professor/ Lecturer	
Name and Surname	Mario Elia
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Telephone	+390805443023
Department and address	Villa Sbisà (Campus Ernesto Quagliariello)
Virtual headquarters	Microsoft Teams (in agreement with Professor/ Lecturer)
Tutoring (time and day)	scheduled (in agreement with Professor/ Lecturer)

Syllabus	
Learning Objectives	The course aims to provide the knowledge of the principles of forest ecology and
	the main forms of forest management. Learning of the multifunctionality of forest
	ecosystems. The recognition of the main forest types of the Italian southern
	regions. Understanding the new tools and technologies to support the remote
	sensing detection of forest resources.
Course prerequisites	Being a first year, first semester exam, there are no specific prerequisites other
	than those required for access to the degree course
Contents	1. Principles of forest ecology
	2. Forest communities
	3. Ecological dynamics
	4. Forestry and the main forms of forest management,
	5. Reforestation
	6. The multifunctionality of the forest
	7. The woodlands of the southern regions
	8. New tools and techniques for the detection of forest resources
Books and bibliography	- Paci M., Ecologia Forestale, Ilsole24ore Edagricole, 2011.
	- Piussi P., Selvicoltura generale. Compagnia delle Foreste S.r.l., 2015.
	- Del Favero R., I boschi delle regioni meridionali e insulari d'Italia, 2008.
Additional materials	Slides and notes during the classes.

Work schedule				
Total	Lectures	Hands on (Laboratory, working groups, seminars,	Out-of-cl	ass study
		field trips)	hours/	Self-study



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				hours	
Hours					
75	20		10	45	
ECTS					
3	2		1		
Teaching strategy	1				
		The lesso the aid o be sched	ns will be delivered in frontal teaching, mixed in aut f Power Point presentations and other audiovisual to uled field trips, seminars, and work group.	horized cases with ools. There will also	
Expected learning outcomes					
Knowledge and understanding O P		o Pr	Principles of forest ecology		
on: o For		0 FC	prestry and the main forms of management		
		o Th	ne forest stands of southern Italy		
		0 Ne	ew tools and techniques for the acquisition of data o	f forest resources	
Applying knowle	dge and	0 At	pility to recognize the main forms of government		
understanding or	า:	0 Ri	udiments of remote sensing		
Soft skills		• Mak	ing informed judgments and choices		
		o Kr	nowing how to recognize a form of government		
		o Kr	nowing how to recognize different forest types		
		o Co	onnection between remote data and ground data		
		• Com	municating knowledge and understanding		
		0 Cc	ommunicate with appropriate scientific language		
		• <i>Capa</i>	acities to continue learning		
		0 D6	eepen forest planning and settlement		

Assessment and feedback	
Methods of assessment	The procedures for verifying learning will take place exclusively through 1 oral exam. If necessary, and only on specific needs, it will be possible to carry out intermediate tests as required by the teaching regulations.
Evaluation criteria	 Knowledge and understanding Sufficient articulation of the course contents Autonomy of judgment Sufficient ability to recognize the different forms of managment and the different forest types covered in the course. Communicating knowledge and understanding Ability to link the different concepts addressed during the lessons Communication skills Sufficient ability to discursively organize concepts and content Sufficient use of scientific language Capacities to continue learning Sufficient and exhaustive capacity of autonomous deepening
Criteria for assessment and	The final grade is awarded out of thirty. The exam is passed when the grade is
attribution of the final mark	greater than or equal to 18.
Additional information	