Principali informazioni sull'insegnamento	
Academic subject	Ecology of Forest Ecosystems and Landscapes
Degree course	Laurea Magistrale in Scienze della Natura e dell'Ambiente
Degree class	L25
ECTS credits (CFU)	5
Compulsory attendance	Highly recommended
Teaching language	Italian
Accademic Year	2020/2021

Docente responsabile	
Name & SURNAME	Paola Mairota
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Tel.	080-5443021
Tutorial time/day	Monday-Friday on appointment

Course details	Pass-fail exam/Exam with mark out of 30	SSD	tipologia attività
	Exam with mark out of 30	AGR/05	Characterising

Time	Year	Semester
	I	II

Teaching modes	CFU/ECTS	Lessons (hours)	CFU/ECTS lab	Lab hours	CFU/ECTS tutorial/workshop	Tutorial/workshop hours	CFU/ECTS field trip	Field trip Hours
		30				20		10

Teaching organisation	Total hours	Teaching hours	Self-study hours
		60	

Schedule	First lesson	Final lesson
	01/03/2021	11/06/2021

Syllabus	
Course entry requirements	I semester courses
Expected learning results	
Knowledge and understanding	The student will have to know and understand the ecological processes that are at the basis of the functioning and dynamics of forest ecosystems in the reference landscape context, with particular reference to the Mediterranean environment.
Applying knowledge and understanding	The student should understand the usefulness of the foundations of forest ecosystems and landscape ecology for silvicultural applications, conservation of biodiversity and natural resources, and sustainable and adaptive management of ecosystems and agri-forested landscape.
Making informed judgements and choices	The student will have to acquire autonomy in the identification of the information and data necessary for the environmental description of a specific stretch of forest with a view to eco-compatible and sustainable management of resources.
Communicating knowledge and understanding	The student will have to acquire the specific vocabulary and terminology of the discipline also through the reading of scientific articles also in English.
Capacities to continue learning	The student must acquire the ability to deepen and read with a critical spirit the evolution of the discipline, through the consultation of scientific texts and articles also in English.

Syllabus	
Course content	Man-forest relations and the significance of forest ecology

	Hierarchical organization of the forest ecosystem: from tree to landscape Key processes of forest ecosystem functioning Spatial and temporal diversity of forest ecosystems The forest landscape: landscape ecology for the management of forest ecosystems (basic concepts).
Course books/Bibliography	• Piussi P. e Alberti A. 2015 Selvicoltura generale. Compagnia delle Foreste Arezzo • Odum E.P., Barrett G.W. 2007 Fondamenti di Ecologia. Piccin Padova • Kimmins JP 1997 Forest ecology: A Foundation for Sustainable Forest Management and Environmental Ethics in Forestry. 3rd edition Prentice Hall • Handouts (also in English)
Notes	Anthology of articles and/or extracts from specialist literature by the teacher
Teaching methods	Class lectures with the use of PowerPoint and other multimedia systems, exercises in the forest, discussions on the topics covered during the theoretical lessons and exercises in the forest. The students' autonomy, critical sense, responsibility and individual and group initiative will be encouraged.
Assessment methods)	Students attending the course can stand a mid-term test. This consists of an oral test on the topics covered until the mid-term interval. The outcome of this test contributes to the overall evaluation and is valid for one academic year. The exam consists of an oral test focussing on the topics covered during lectures and lab and field classes. The score is expressed in a 1 to 30 scale. For students who have taken the mid-term test, the exam evaluation is expressed as the arithmetic average of scores the mid-term test the oral exam. For foreign students, provided the favorable opinion of the Consiglio di interclasse, both test and exam will be administered in English. The evaluation of the student's preparation is based on pre-established criteria, as detailed in Annex A of the academic regulations for the BSc Course
Evaluation criteria (Explain for each expected learning outcome what a student has to know, or is able to do, and how many levels of achievement there are	In addition to ascertaining the acquisition of knowledge, the ability to reason and make connections with other BSc disciplines in relation to the trans-disciplinary nature of the subject being taught is assessed. The details of the other disciplines are not required, but the ability to grasp what of the other disciplines makes it possible to understand the functioning of ecosystems and forest landscapes. The knowledge of the notions alone is not evaluated beyond an average level (23/30).
Further information	