



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Scienze Agrarie, Alimentari e Forestali
<b>ACADEMIC YEAR</b>	2017/2018
<b>MASTER'S DEGREE (MSC)</b>	FORESTRY AND AGRO-ENVIRONMENTAL SCIENCE AND TECHNOLOGY
<b>SUBJECT</b>	REFORESTATION TECHNIQUES AND PROPAGATION OF FOREST SPECIES
<b>TYPE OF EDUCATIONAL ACTIVITY</b>	B
<b>AMBIT</b>	50564-Discipline forestali ed ambientali
<b>CODE</b>	19135
<b>SCIENTIFIC SECTOR(S)</b>	AGR/05
<b>HEAD PROFESSOR(S)</b>	LA MANTIA TOMMASO Professore Ordinario Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	
<b>CREDITS</b>	6
<b>INDIVIDUAL STUDY (Hrs)</b>	90
<b>COURSE ACTIVITY (Hrs)</b>	60
<b>PROPAEDEUTICAL SUBJECTS</b>	
<b>MUTUALIZATION</b>	
<b>YEAR</b>	1
<b>TERM (SEMESTER)</b>	1° semester
<b>ATTENDANCE</b>	Not mandatory
<b>EVALUATION</b>	Out of 30
<b>TEACHER OFFICE HOURS</b>	<b>LA MANTIA TOMMASO</b> Monday 09:00 13:00 Studio Prof. La Mantia, Dip. SAAF, Viale delle Scienze Ed. 4 , Stanza 0037 Tuesday 09:00 13:00 Studio Prof. La Mantia, Dip. SAAF, Viale delle Scienze Ed. 4 , Stanza 0037

**DOCENTE:** Prof. TOMMASO LA MANTIA

<b>PREREQUISITES</b>	To have basic knowledge in forestry and forest ecology.
<b>LEARNING OUTCOMES</b>	The course provides students with: a) knowledge of reforestation techniques particularly applied to the Mediterranean environment; B) the foundations of knowledge of Italian forest species and propagation techniques
<b>ASSESSMENT METHODS</b>	<p>1) One midterm written tests and one final. Their structure includes: a) a comprehensive set of closed questions (matching and multiple choice).</p> <p>2) An oral exam in addition (optional) or in place of the two written tests. In the first case, the examinees must answer specific questions on subjects for which they gave wrong answers during the written test and the exam is to improve the evaluation acquired with written tests. In the second case, the examinees must answer at least two / three questions posed orally, on all topics covered in class, with reference to the recommended text books.</p> <p>Final assessment aims to evaluate whether the student has knowledge and understanding of the topics, has acquired interpretative skills and independence of judgment in real cases.</p> <p>Evaluation is presented in scores out of 30 with a minimum score of 18 for passing, according to the following table:</p> <ul style="list-style-type: none"> <li>- sufficient/basic knowledge and ability to connect, apply and analyze covered topics (score 18-21)</li> <li>- fair/intermediate knowledge and ability to connect, apply and analyze covered topics (score 22-25)</li> <li>- good/high knowledge and ability to connect, apply and analyze covered topics (score 26-28)</li> <li>- excellent/advanced knowledge and ability to connect, apply and analyze covered topics (score 29-30L).</li> </ul>
<b>EDUCATIONAL OBJECTIVES</b>	The main objectives of this course are: a) the afforestation techniques in the Mediterranean environment. With particular reference to the regions of southern Italy, useful information will be given for the evaluation of the effects of forestry treatments on the forest and on the reforestation re-naturalization processes; b) propagation techniques of forest species.
<b>TEACHING METHODS</b>	Lectures in class, field visits
<b>SUGGESTED BIBLIOGRAPHY</b>	Corona P., Ferrari B., Iovino F., La Mantia T., Barbati A. (2009) - Rimboschimenti e lotta alla desertificazione In Italia. Aracne Edritice, Roma, 281 pp. A. Gradi, Vivaistica forestale, Edagricole, Bologna, 1980. Beti Piotto e Anna Di Noi, 2001 Propagazione per seme di alberi e arbusti della flora mediterranea .

## SYLLABUS

Hrs	Frontal teaching
1	Introduction to the course.
2	Forest species distribution in Italy and their ecology and management.
18	Afforestation and Reforestation techniques.
3	National legislation and the Sicilian region
8	Methods of propagation of the main tree species, shrubs and forests. The nursery company. Propagation for seed, generality. Use of seedlings. Origin and Seed Selection. Methods for harvesting seeds, in forests and arboretum.
8	Agamic Propagation: Propagation by Cuttings, Factors That Influence The Natural Rizogen Aptitude. Methods to increase rooting (nebulization, basal heating, and risk factors). Graft, purpose and characteristics.
5	Some case studies.
Hrs	Practice
15	Field excursion in a representative Sicilian forest landscape but also of reforestation techniques applied in Sicily.