



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Scienze Agrarie, Alimentari e Forestali		
<b>ACADEMIC YEAR</b>	2018/2019		
<b>MASTER'S DEGREE (MSC)</b>	AGRICULTURAL PRODUCTIONS AND TECHNOLOGIES		
<b>SUBJECT</b>	TAXONOMY OF ORNAMENTAL SPECIES		
<b>TYPE OF EDUCATIONAL ACTIVITY</b>	C		
<b>AMBIT</b>	21005-Attività formative affini o integrative		
<b>CODE</b>	18818		
<b>SCIENTIFIC SECTOR(S)</b>	BIO/02		
<b>HEAD PROFESSOR(S)</b>	FICI SILVIO	Professore Associato	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>FICI SILVIO</b> Tuesday 10:00 14:00 Via Archirafi 38, 1°piano Wednesday 10:00 14:00 Via Archirafi 38, 1°piano		

DOCENTE: Prof. SILVIO FICI

<b>PREREQUISITES</b>	Basic knowledge of Plant Biology (morphology, phylogeny).
<b>LEARNING OUTCOMES</b>	<p>Knowledge and understanding</p> <p>Acquisition of basic knowledge about Plant Taxonomy, with special reference to woody groups of ornamental interest. Ability to use the specific language of the basic subject. Ability to approach the disciplines of the course that will take Plant Taxonomy as a cognitive base.</p> <p>Applying knowledge and understanding</p> <p>Ability to identify the different plant species, with special reference to the ornamental ones widespread in mediterranean gardens. Ability of selection of species for public and private gardens and roadsides. Making judgments</p> <p>Being able to evaluate the consequences of selection of species and the implications on their cultivation. Being able to judge the applicability of the results of studies and publications on woody plants in the urban environment.</p> <p>Communication skills</p> <p>Ability to present the results of this subject, the principles of Plant Taxonomy also to an audience non-expert, or expert in the field or with practical experience but with limited scientific basis.</p> <p>Learning ability</p> <p>Ability to understand related disciplines, as well as in-depth courses and specialized seminars. Ability to understand the disciplines of the curriculum that use Plant Taxonomy as basic knowledge.</p>
<b>ASSESSMENT METHODS</b>	<p>Oral exam aimed at evaluating the acquired knowledge in Plant Taxonomy, the ability to make connections between topics and the clarity in presentation.</p> <p>During the exam the students can present an educational herbarium. Positive valuation ranges from 18 to 30 and praise. The final valuation will be formulated on the basis of the following criteria: a) Basic knowledge of the main topics, limited capacity to apply the gained knowledge, sufficient capacity of analysis and exposure (rating 18-21); b) Good knowledge of the studied topics, ability to link these and to apply their content in situations similar to those studied, discrete capacity of analysis and exposure (rating 22-25); c) In-depth knowledge of the studied topics and ability to apply these, but not always promptly and following a linear approach, ability of identification of higher plants of the main families studied (with special reference to species of ornamental interest), good capacity of synthesis, analysis and exposition (rating 26-28); d) Deep knowledge of Plant taxonomy and ability to apply its concepts promptly and correctly, ability of identification of higher plants of the main families studied (with special reference to species of ornamental interest), excellent capacity of synthesis, of analysis and excellent capacity of communication (rating 29-30 and praise).</p>
<b>EDUCATIONAL OBJECTIVES</b>	<p>The course is aimed at providing basic knowledge on Plant Taxonomy, with reference to groups of ornamental interest in the Mediterranean. Will be provided basic knowledge about plant systematics, taxonomic units, classification and botanical nomenclature. The main families of woody ornamental plants will be studied, and the more widespread species of our gardens will be examined in-depth details.</p>
<b>TEACHING METHODS</b>	Lectures, practical classes
<b>SUGGESTED BIBLIOGRAPHY</b>	FERRARI M., MEDICI D. (1996) - Alberi e arbusti in Italia. Edagricole, Bologna.

## SYLLABUS

Hrs	Frontal teaching
2	The plant systematics and relative history. Taxonomic units. Main systems of classification. Botanical nomenclature. Species concept, infraspecific taxa. The stages of phylogeny of plants.
3	Fundamentals of Plant Morphology. Stem, root, leaf. Flower, inflorescence, fruit, seed. Main morphological characters for identification of species. Use of analytical keys.
2	Cormophytes: Generalities and Systematics. Spermatophytes: Generalities. The ovule. The seed. Systematics.
6	Gymnosperms: Vegetative and reproductive characters. Systematics. Species of ornamental interest belonging to the following families: Cycadaceae, Ginkgoaceae, Araucariaceae, Cupressaceae, Pinaceae, Taxaceae
17	Angiosperms: Vegetative and reproductive characters. Systematics. Species of ornamental interest belonging to the following families: Fagaceae, Salicaceae, Ulmaceae, Moraceae, Buxaceae, Platanaceae, Lauraceae, Magnoliaceae, Tamaricaceae, Mimosaceae, Caesalpiniaceae, Fabaceae, Pittosporaceae, Rosaceae, Myrtaceae, Punicaceae, Malvaceae, Tiliaceae, Bombacaceae, Sterculiaceae, Aceraceae, Anacardiaceae, Hippocastanaceae, Meliaceae, Rutaceae, Simarubaceae, Sapindaceae, Aquifoliaceae, Araliaceae, Bignoniaceae, Scrophulariaceae, Apocynaceae, Oleaceae, Caprifoliaceae, Arecaceae, Liliaceae, Agavaceae
Hrs	Practice
30	Practical classes in the Botanical Garden and in the main gardens of Palermo: Identification of ornamental species of gymnosperms and angiosperms.