UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	
ACADEMIC YEAR	
ANNO ACCADEMICO EROGAZIONE	
SUBJECT	
CODE	
SCIENTIFIC SECTOR(S)	
HEAD PROFESSOR(S)	TUTTOLOMONDO TERESA Professore Associato Univ. di PALERMO
OTHER PROFESSOR(S)	TUTTOLOMONDO TERESA Professore Associato Univ. di PALERMO LIGUORI GIORGIA Professore Associato Univ. di PALERMO
CREDITS	
PROPAEDEUTICAL SUBJECTS	
MUTUALIZATION	
YEAR	
TERM (SEMESTER)	
ATTENDANCE	
EVALUATION	
TEACHER OFFICE HOURS	**LIGUORI GIORGIA** Monday 09:00 11:00 Studio 24 - Dipartimento SAAF Tuesday 09:00 11:00 Studio 24 - Dipartimento SAAF Thursday 09:00 12:00 Studio 24 - Dipartimento SAAF **TUTTOLOMONDO TERESA** Tuesday 11:00 13:00 Studio della prof.ssa Tuttolomondo c/o Dip SAF

DOCENTE: Prof.ssa TERESA TUTTOLOMONDO

PREREQUISITES	The dynamics of ecophysiological processes of vegetation in relation to environmental variables and their role on urban microclimate are central to this course. Knowledge requirements consist of basic courses of mathematics, physics, inorganic and organic chemistry, botany (morphology and physiology), biochemistry, agronomy and crop ecology and fundamental concepts of plant genetics.
LEARNING OUTCOMES	Knowledge and understanding Knowledge of ecological factors and their influence on herbaceous and woody plants in the urban environment. Knowledge of the effects of urban environment on sites climatology. Knowledge of main climatic types prevailing in the urban environment. Knowledge of the most pressing management issues of urban vegetation in relation to ecological factors. Applying knowledge and understanding Competences in the evaluation of environmental requirements aiming to the choice of the suitable species to adopt in the urban environment. Competences in the usage of ornamental plants, isolated or in communities, aiming to the mitigation of urban microclimate. Competences on urban vegetation management techniques in relation the environment. Making judgements Analysis capabilities on plant-environment relations both of individual plants and grouped in communities (parks, urban forests, urban gardens) Ability to formulate and apply urban vegetation management criteria in relation to environmental variables for the mitigation of urban microclimate through the use of vegetation. Communication Ability to express and formulate hypotheses and projects and to support the adoption of plant species suitable to affect/mitigate the urban microclimate. Learning skills Ability to gather relevant information and data on urban environment. Knowledge of reputable sources of information and environmental data at the urban landscape level. Ability to search and acquire fundamental environmental variables and usage of information and knowledge support systems.
ASSESSMENT METHODS	Oral exam consists of a colloquium aiming to ascertain the level of competences and knowledge acquired within the course. Grading will be done in a scale from 1/30 to 30/30; threshold grading for passing is 18/30. Exam questions will aim to assess: a) knowledge acquired, b) ability to elaborate on course subjects, c) ability to adequately express with a good degree of synthesis and effectiveness. In detail, oral assessment will be performed as follows: a) knowledge and comprehension acquired within the course will be assessed through specific questions on main environmental variables and their interaction with ornamental plants.; b) the ability to elaborate on course subjects will be assessed within at least one of the following scopes: b1) ability to express autonomous reasoning about the interactions between urban environment and vegetation; b2) overall comprehension of their role within the discipline and ability to mitigate urban microclimate through the use of vegetation; b3) elaborate a general framework integrating course contents within a real-world example, with particular reference to the analysis of urban systems in relation to the environmental, socio-economic and cultural context. c) evaluation of communication skills will give a minimum grading when the student is able communicate with the specific language of the professional field but not in a fully structured expression. Maximum evaluation will be given when a full control of the field-specifi language will be shown together with a distinct knowledge of the professional lexicon.
TEACHING METHODS	Classroom lectures, practical sessions and field trips.