

DIPARTIMENTO DI Scienze del Suolo, della Pianta e degli Alimenti

LAUREA MAGISTRALE IN MEDICINA DELLE PIANTE INTERNATIONAL JOINT MASTER DEGREE IN PLANT MEDICINE



General Information			
Academic subject	Fruit crops (Integra	ted Course: Plant Produ	ction)
Degree Course	Master's Degree in Plant Medicine (LM-69)		
ECTS credits	6		
Compulsory attendance	No		
Language	Italian (English presentations for foreign students)		
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Professor	Name Surname	Mail address	SSD

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	ECTS details	Area	
		Plant Production	
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Class Schedule	
Period	Second Semester
Year	Firstyear
Type of class	Lectures, 4 ECTS (32 hours). Laboratory and field classroom, study case, webinars and workshops, 2 ECTS (28 hours). E-learning could be used for particular situations (physically or psychologically unable students, foreign students, working students, student athletes, etc.) by using online platforms (Teams).

Time management	
Hours	150
In-class study hours	60 (32 hours of lectures + 28 hours of field and laboratory activities)
Out-of-class study hours	90

Academic calendar	
Class begins	March 1, 2021
Class ends	June 11, 2021

Syllabus	
Prerequisites/requirements	Knowledge of General Horticulture (Fruit and Nut tree)
Expected learning outcomes (according to	Knowledge and understanding
Dublin Descriptors)	\circ Knowledge and understanding of the most important
	technical and scientific aspects of fruit tree species in
	Mediterranean climate.
	Applying knowledge and understanding
	 Capacity to apply and understand the characteristics of the different species in order to evaluate their responses in different pedo-climatic and agronomical conditions.
	 Making informed judgements and choices
	 Capacity to evaluate both the best species/varieties and agronomical techniques suitable for a pedo-climatic
	area.
	Communicating knowledge and understanding
	\circ Capacity to explain acquired knowledge with an

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	 appropriate and technical speech. <i>Capacitiesto continue learning</i> Capacity to improve knowledge acquired during class with further readings of technical and scientific papers. The results of expected understanding, in terms of knowledge and abilities, are reported in Annex A of the Didactic Regulation of the Master's Degree in Plant Medicine (as European descriptors for Degree; Plant Production area).
Topics of the Course	Fruit tree crops of Mediterranean climate: importance and statistics, systematics, botanical characteristics, pedo-climatic requirements, propagation and rootstocks, physiology of fruit, varieties, orchard/vineyard establishment, trellising and pruning, soil management, irrigation (use of sensors), nutrition, ripening, use of the fruits, harvesting, post-harvest and nutritional facts. A special attention will be given to the use of new technologies (Smart fruit tree production) towards a 4.0 orchard/vineyard management. The following species will be described: apricot, sweet cherry, peach, plum, apple, pear, azarole, citrus spp., grape, olive, almond, walnut, hazelnut, pecan, pistachio, kiwi, fig, pomegranate, carob, mulberry, kaki, sorb, medlar, loquat, cornelian cherry.

Course Program		
Bibliography	 Baldini E Arboricoltura generale. Clueb (1986). Peano C., Sottile, F., et al Principi di Arboricoltura. Edises (2019). AAVV - Frutticoltura speciale. Reda (1991). Boselli, M., et al Progressi in Viticoltura. Edises (2016). Collana Colture & Cultura, Bayer Crop Science (http://www.colturaecultura.it/download). Liste varietali (http://plantgest.imagelinenetwork.com/liste-varietali.cfm). Norman F. Childers, Modern Fruit Science. Horticultural Publications, 1995. 	
Notes		
Teaching methods	Lectures will be given with Power Point presentations, videos, activities in lab and field.	
Assessment methods	 activities in lab and field. A midterm oral exam is scheduled for students enrolled to the Course. This exam will test the course's information at that date of the semester. The midterm exam is expressed as 30 and if passed, in the following oral exam the rest of the course's information will be tested. The joint results of the two exams will give the final score expressed as 30. The final exam will consist on an oral test, as reported in the Guidelines of the Master's Degree of Plant Medicine (art. 9) and in the Annex A. In particular, the student will give an oral presentation on a topic related to the course which will be successively discussed with N.3 questions on other topics of the course. The evaluation of the student will be based on established 	



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	criteria, as explained in the Annex A of the Master's Degree of Plant Medicine. The final grade will be an average of both the	
	midterm and final exam.	
	For foreign student the exam consists of an oral test in English	
	with questions related to the course's information.	
Evaluation criteria	Knowledge and understanding	
Lvaluation enterna	• Description of morpho-physiological characteristics of	
	fruit tree species in Mediterranean climate.	
	fruit tree species.	
	Applying knowledge and understanding	
	 Capacity to analyze the different species requirements in various pedo-climatic conditions. 	
	• Ability to know and use the different cultural practices	
	for the fruit tree species.	
	Making informed judgments and choices	
	• Advice the choice of species/varieties in various pedo-	
	climatic conditions.	
	\circ Advice the best cultural practices for the various fruit	
	tree species.	
	Communication skills	
	 Explain the acquired knowledge with an appropriate speech. 	
	• Ability to give oral presentations for educational	
	purposes on the acquired knowledge.	
	Capacities to continue learning	
	• Plan and manage orchards and vineyards with both the	
	appropriate choice of the species/varieties and cultural	
	practices.	
	\circ Improve knowledge with readings of technical and	
	scientific papers.	
Further information	Visiting hours	
	Every day from 8.30 to 13.30 pm according to a scheduled	
	appointment. Tutoring could be also done on online platforms	
	(Teams).	