

General Information	
Academic subject	Fruit Tree Crop 2 nd
Degree course	Bachelor Courses 'Agricultural Science and Technology', and 'Agro-forestry environmental science and technology'
Curriculum	
ECTS credits	6
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Marino Palasciano	marino.palasciano@uniba.it	AGR/03

ECTS credits details			ETCs
Basic teaching activities			6

Class schedule	
Period	Second semester
Year	Third year
Type of class	Lectures, 4 ECTS (32 hours) Laboratory and field classroom, 2 ECTS (28 hours)

Time management	
Hours	150
In-class study hours	60
Out-of-class study hours	90

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

Syllabus	
Prerequisites/requirements	Plant Biology, Agronomy, Arboriculture, Fruit Tree Crops
Expected learning outcomes (according to Dublin Descriptors) (it is recommended that they are congruent with the learning outcomes contained in A4a, A4b, A4c tables of the SUA-CdS)	<p>Knowledge and understanding</p> <ul style="list-style-type: none"> ○ Knowledge and understanding of the main hormones that regulate the physiology of fruit trees. ○ Knowledge and understanding of the different techniques for the protection of orchards. ○ Knowledge and understanding of the physiology of ripening and of the techniques relating to the harvesting and postharvesting of the fruits of the main tree species of the Mediterranean environment. <p>Applying knowledge and understanding</p> <ul style="list-style-type: none"> ○ Ability to evaluate the influence of hormonal factors and of orchards protection techniques on the vegetative and productive cycle of fruit trees, in a vision of environmental and economic sustainability. ○ Ability to apply the tools acquired in order to identify and choose the optimal ripening and harvesting period and the most suitable harvesting and postharvesting techniques for the maintaining the quality of fruits. <p>Making informed judgements and choices</p> <ul style="list-style-type: none"> ○ Ability to acquire information and identify suitable solutions for situations in different production areas, to plan actions and manage interventions to improve the quality and efficiency of fruit production and their postharvest management, also in terms of sustainability and eco-compatibility. <p>Communicating knowledge and understanding</p> <ul style="list-style-type: none"> ○ Ability to describe and communicate with appropriate and relevant language skills acquired. <p>Capacities to continue learning</p>

	<ul style="list-style-type: none"> ○ Ability to deepen and update personal knowledge relating to hormonal mechanisms, protection techniques and management of the harvesting and the postharvesting of fruit trees. <p>The results of the expected learning, in term of knowledge and ability, are listed in the Annex A of the Didactic Regulation of the Bachelor Course (expressed by the European descriptors of the study title).</p>
Contents	Physiological processes regulated by hormones, techniques and tools adopted in protected orchards, physiology of ripening, techniques and tools for evaluating the quality of fruits, harvesting techniques, evolution of fruits after harvesting and fruit storage techniques of the main fruit tree species cultivated in the Mediterranean environment.
Course program	
Bibliography	<ul style="list-style-type: none"> •Notes from the lectures and didactic material. •A.A. V.V. Frutticoltura Generale. REDA, Roma, 1992. •AA.VV. Arboricoltura generale Patron Editore Bologna, 2012 •Knee M., (Ed.), Fruit quality and its biological basis. Sheffield Academic Press, 2002. •Thompson A. K., Fruit and vegetables (Harvesting, handling and storage).Blackwell Publishing, 2003. •Scientific Reviews
Notes	
Teaching methods	Lectures will be given with the support of PC assisted tools (Power Point).
Assessment methods (indicate at least the type written, oral, other)	Oral
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.	<ul style="list-style-type: none"> • <i>Knowledge and comprehension ability</i> <ul style="list-style-type: none"> ○ Ability to describe the hormones that regulate the physiology of fruit trees. ○ Ability to describe the different techniques for protection of orchards. ○ Ability to describe the physiology of ripening and the techniques relating to harvesting and postharvesting of fruits. • <i>Knowledge and applied comprehension ability</i> <ul style="list-style-type: none"> ○ Ability to evaluate the influence of hormonal factors and of the orchards protection techniques on the vegetative and productive cycle of fruit trees, in a vision of environmental and economic sustainability. ○ Ability to apply the tools acquired in order to identify and choose the optimal ripening and harvesting period and the most suitable harvesting and postharvesting techniques for maintaining fruits quality. • <i>Autonomy of judgement</i> <ul style="list-style-type: none"> ○ Ability to critically evaluate suitable solutions for situations in different production areas, to plan actions and manage interventions to improve the quality and efficiency of fruit production and their postharvest management, also in terms of sustainability and eco-compatibility. • <i>Communication skills</i> <ul style="list-style-type: none"> ○ Ability to describe and communicate with appropriate and relevant language skills acquired. • <i>Learning ability</i> <ul style="list-style-type: none"> ○ Ability to apply the skills acquired in the management of different operational contexts.
Further information	Visiting hours From Monday to Friday, by appointment to be agreed by email.