Syllabus

Course Description

Course Title	Fruit Production
Course Code	40199
Course Title Additional	
Scientific-Disciplinary Sector	AGRI-03/A
Language	English
Degree Course	Bachelor in Agricultural, Food and Mountain Environmental Sciences
Other Degree Courses (Loaned)	
Lecturers	Prof. Carlo Andreotti, Carlo.Andreotti@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/27175
Teaching Assistant	
Semester	Second semester
Course Year/s	3
CP	6
Teaching Hours	40
Lab Hours	20
Individual Study Hours	90
Planned Office Hours	18
Contents Summary	The course belongs to the class "caratterizzanti" of the Study Course, within the group of "Produzioni vegetali". Objective of the course is to allow students to get good knowledge of the general scientific subjects of the course and to allow them to develop professional skills in the area of fruit production. The course aims to develop student's scientific and technical knowledge that is needed for a critical approach to problems related to fruit production. Student will gain knowledge on different aspects related to the quality, sustainability and management of the fruit production processes.

Course Topics	For the following fruit species, a monographic approach is followed, with information related to botanical aspects, economic relevance at national and international level, environmental conditions for a sustainable cultivation, cultivation technique and cultivars/rootstocks. Pomaceous fruit species (apple, pear); Stone fruit species (peach, cherry, plum, apricot); Strawberry and other small fruit species (blueberry, raspberry, etc.); Kiwifruit; Temperate nut trees (Chestnut, hazelnut, walnut, almond); Citrus species; Olive; Table grape; Selected tropical fruit crops
Keywords	Fruit crops, genetic resources, cultivars, crop ecology, orchard management
Recommended Prerequisites	
Propaedeutic Courses	no
Teaching Format	Frontal lectures and exercises and external (field) activities
Mandatory Attendance	no
Specific Educational Objectives and Learning Outcomes	Knowledge and understanding Knowledge of the most important scientific and technical traits of the main fruit tree species Applying knowledge and understanding Be able to distinguish the main characters and cultural constrains of fruit tree cultivations Be able to identify the most relevant limiting factors (deriving from the environment or related to the cultivation technique) for a sustainable fruit cultivation Making judgments Through the critical evaluation of the environmental parameters Through the critical evaluation of the several available agronomic approaches Communication skills Ability to communicate the acquired knowledge by using a correct scientific and technical language

	Learning skills Ability to autonomously extend the knowledge acquired during the study course by reading and understanding scientific and technical documentation.
Specific Educational Objectives and Learning Outcomes (additional info.)	
Assessment	For attending students: 1/3 of the mark obtained from the evaluation of a group work on a specific topic/problem (proposed by the group of students or given by the professor) of the current and future fruit production sector. 2/3 of the mark obtained from an oral exam on topics listed in the course programme (max 2 questions on different fruit crops) For non-attending students: final oral exam on topics listed in the course programme (min 4 questions on different fruit crops). The group work will assess the students' capability to work together, while also improving their individual skills and ability to present in public. The final oral exam will assess student' knowledge and capacity to apply his knowledge to solve specific case studies given by the teacher on subjects related to the fruit cultivation. The making judgment capacity of the student will be evaluated also by asking critical opinions on the different subjects discussed during the exercises.
Evaluation Criteria	The final mark will reflect the quality of the student's answers to questions and (for attending students) the quality of the group work. Particularly important will be the capacity showed by the student to fully manage the acquired knowledge, also by showing the ability to make connections between different thematic areas. The ability to develop a personal critical view on specific scientific problems will be also positively considered
Required Readings	Lesson notes and didactic materials (papers) loaded on Teams
Supplementary Readings	Suggested text books:

	"Temperate Tree Fruits and Nuts" , Editor: George Manganaris, 1st Edition - October 9, 2025; Academic Press; Language: English; ISBN: 9780443291371 “Arboricoltura speciale”, 2022. Edited by Gentile, Inglese, Tagliavini, Edagricole (Bologna)
Further Information	
Sustainable Development Goals (SDGs)	Responsible consumption and production, Zero hunger