Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan

Syllabus
Course description

Course title	**Fruit Production**
Course code	40199
Scientific sector	AGR/03
Degree	Bachelor in Agricultural, Food and Mountain environmental Sciences
Semester	2nd
Year	III
Academic year	2023/24
Credits	
Modular	No

Total lecturing hours	36
Total exercise hours	24
Attendance	
Prerequisites	Attendance to the course of General Arboriculture
Course page	

Specific educational objectives	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.

Lecturer	Prof. Carlo Andreotti, office K4.03, email: carlo.andreotti@unibz.it
Scientific sector of the lecturer	AGR/03
Teaching language	English
Office hours	Monday to Friday by appointment
Teaching assistant (if any)	
Office hours	
List of topics covered	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) • Citrus species • Olive • Other minor fruit crops
Teaching format	Frontal lectures and exercises

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.

Assessment	Oral exam with questions aimed to verify student's knowledge and comprehension of the course topics. Questions will be asked with the aim to evaluate the student's 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 his critical opinion on the different subjects discussed during the exercises.
Assessment language	English
Evaluation criteria and criteria for awarding marks	The final mark will reflect the quality of the student's answers to the questions. 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 the reserve collection/Teams
Supplementary readings	-"Fundamentals of temperate zone tree fruit production", 2005, Edited by Tromp, Webster and Wertheim, Backhuys Publishers. -"Arboricoltura special", 2022. Edited by Gentile, Inglese, Tagliavini, Edagricole (Bologna) - "Principles of Modern Fruit Science", 2019. Edited by Sansavini, S., Costa, G., Gucci, R., Inglese, P., Ramina, A., Xiloyannis, C., and Desjardins,Y., Leuven, Belgium: ISHS), pp.421. ISBN 978-94-6261-204-4