General Information	
Academic subject	Agronomy (Module of I.C. Agronomy and Tree cultivation)
Degree course	Land and Environmental Science and Technology
Curriculum	
ECTS credits	6
Compulsory attendance	No
Language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Eugenio Cazzato	eugenio.cazzato@uniba.it	AGR 02

ECTS credits details	Areas	SSD	Credits
Basic teaching activities		AGR 02	6

Class schedule	
Period	Second semester
Year	third
Type of class	Lectures, 4 ECTS (32 hours) Laboratory and field classroom, 2 ECTS (28 hours) E-learning using public (eg Teams) and dedicated (Agripodcast) platforms can be used, on demand as learning facilities for students with disabilities and for working students, student athletes and students with babies

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

Academic calendar	
Class begins	March 1, 2021
Class ends	June 18, 2021

Syllabus	
Prerequisites/requirements	
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)	*Knowledge and understanding* o Knowledge of climatic factors, agronomic aspects of soil, water-soil relationships, tillage techniques, dry farming, irrigation and fertilization techniques, crop systems, weed control and agro-ecosystems. *Applying knowledge and understanding* o Ability to understand the influence of the cultivation techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the yield and quality of crops. *Making informed judgements and choices* o Ability to carry out a critical analysis of the effects of the cultivation techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the production and quality of agricultural crops. *Communicating knowledge and understanding* o Ability to describe the effects of cultivation techniques on the soil-plant-atmosphere system.

	Capacities to continue learning ○ The expected learning cpacities, in terms of knowledge and skills, are listed in Annex A of the Study Course Regulations (expressed through the European Degree Program descriptions)
Contents	The agroecosystem and its components: soil and atmosphere; Productivity of plant communities. Excessive water management and irrigation. Protective structures. Tillage. Fertilization. Weed management. Reproduction and propagation. Crop consociations and rotations. Farming systems: conventional, conservative, biological, precision. Dry farming.
Course program	
Bibliography	○ Ceccon P., Fagnano M., Grignani C., Monti M., Orlandini S., 2017. Agronomia. EDISES, Napoli ISBN 978 88 7959 965 8 ○ Giardini L.: L'AGRONOMIA (per conservare il futuro), Patron editore, Bologna, 2012 ○ Notes of lectures distributed during the course.
Notes	
Teaching methods	Lectures will be presented through PC assisted tools (Powerpoint, Adobe Acrobate, ect.).
Assessment methods (indicate at least the type written, oral, other)	The exam consists of an oral exam on the topics developed during the hours of lecture and theory and practice in the classroom and in the laboratory / production farms, as reported in the Academic Regulations for the Master Course "STAF" (Art. 9) and the plan study (Annex A). The evaluation of the student's preparation is based on pre-established criteria, as detailed in Annex A of the Academic Regulations for the Degree Course "Environmental Science and Technology". For students who have made the test of exemption, the examination of profit assessment is of thirty, and averaging the obtained votes.
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.	Knowledge and understanding ○ Assess the ability to understand and highlight the influence of the cultivation techniques, climate and physical, chemical and microbiological characteristics on the yield and quality of crops. Applying knowledge and understanding ○ Ability to describe the effects of the main aspects of growing technique on the agronomic and environmental response of the soil-plant-atmosphere system. Making informed judgements and choices ○ To make reasonable hypotheses about the effects of the growing techniques, the climate and the physical, chemical and microbiological characteristics of the soil on the yield and quality of agricultural crops. Communicating knowledge and understanding ○ Assessment of personal abilities, aimed at communication and judgment, both on the technical and on the human and ethical level.

	Capacities to continue learning ○ The assessment of the student's preparation is done on the basis of predefined criteria, as detailed in Annex A of the Master's Degree Course Code. For students who have supported the exemption test, the assessment of the profit test is expressed in thirtieth and averaging the votes obtained.
Further information	**Visiting hours:** every day from 09:30 to 10:30 in the teacher's room by appointment agreed by e-mail. Tutoring could be also on e-learning platforms.