Offerta didattica

Plant productions

Primo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9799256 - VEGETABLE AND ORNAMENTAL CROPS	B	AGRI-02/B	6	63	AP	ENG
9798514 - PLANT DISEASE MANAGEMENT	B	AGRI-05/B	6	63	AP	ENG
9798513 - SUSTAINABLE AGROECOSYSTEM			0	0	AP	ENG
MANAGEMENT OF SOIL ORGANIC MATTER	B	AGRI-06/B	6	63		
SUSTAINABLE MANAGEMENT OF CROPPING SYSTEMS	B	AGRI-02/A	6	63		
9798516 - WATER RESOURCE MANAGEMENT IN AGRICULTURE	C	AGRI-04/A	6	63	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798517 - FRUITCULTURE	B	AGRI-03/A	6	63	AP	ENG
9800287 - REAL ESTATE VALUATION AND COMMON AGRICULTURAL POLICIES			0	0	AP	ENG
RURAL ESTATE VALUATION	C	AGRI-01/A	6	63		
EUROPEAN AGRICULTURAL AND FISHERIES POLICY	B	AGRI-01/A	6	63		
9798519 - AGRICULTURAL MECHANISATION AND LABOUR ORGANISATION	B	AGRI-04/B	7	70	AP	ENG
9798520 - SUSTAINABLE PEST CONTROL	B	AGRI-05/A	6	63	AP	ENG

Secondo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798522 - MEDITERRANEAN FRUIT TREE CROPS	B	AGRI-03/A	6	63	AP	ENG
9799257 - PROTECTED CULTIVATIONS	B	AGRI-02/B	6	63	AP	ENG
9798523 - HERBACEOUS CROP SYSTEMS BIOMASS CROPS FOR ENERGY WEED MANAGEMENT TECHNIQUES AND FERTILISATION	 B B	 AGRI-02/A AGRI-02/A	0 6 6	0 63 63	AP	ENG
9798611 - OPTIONAL SUBJECT	D		12	126	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798613 - OTHER KNOWLEDGE USEFUL FOR JOB PLACEMENT	F		1	14	I	ENG
Gruppo opzionale: FINAL EXAMINATION	E					

Plant protection technologies

Primo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9799256 - VEGETABLE AND ORNAMENTAL CROPS	B	AGRI-02/B	6	63	AP	ENG
9798514 - PLANT DISEASE MANAGEMENT	B	AGRI-05/B	6	63	AP	ENG
9798513 - SUSTAINABLE AGROECOSYSTEM			0	0	AP	ENG
MANAGEMENT OF SOIL ORGANIC MATTER	B	AGRI-06/B	6	63		
SUSTAINABLE MANAGEMENT OF CROPPING SYSTEMS	B	AGRI-02/A	6	63		
9798516 - WATER RESOURCE MANAGEMENT IN AGRICULTURE	C	AGRI-04/A	6	63	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798517 - FRUITCULTURE	B	AGRI-03/A	6	63	AP	ENG
9800287 - REAL ESTATE VALUATION AND COMMON AGRICULTURAL POLICIES			0	0	AP	ENG
RURAL ESTATE VALUATION	C	AGRI-01/A	6	63		
EUROPEAN AGRICULTURAL AND FISHERIES POLICY	B	AGRI-01/A	6	63		
9798519 - AGRICULTURAL MECHANISATION AND LABOUR ORGANISATION	B	AGRI-04/B	7	70	AP	ENG
9798520 - SUSTAINABLE PEST CONTROL	B	AGRI-05/A	6	63	AP	ENG

Secondo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798524 - ARTHROPOD PEST MANAGEMENT IN MEDITERRANEAN CROPS			0	0	AP	ENG
BIOLOGICAL CONTROL	B	AGRI-05/A	6	63		
INTEGRATED PEST MANAGEMENT	B	AGRI-05/A	6	63		
9798525 - BIOLOGICAL CONTROL OF PLANT DISEASES	B	AGRI-05/B	6	63	AP	ENG
9798526 - DIAGNOSIS IN PLANT PATHOLOGY	B	AGRI-05/B	6	63	AP	ENG

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798611 - OPTIONAL SUBJECT	D		12	126	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798613 - OTHER KNOWLEDGE USEFUL FOR JOB PLACEMENT	F		1	14	I	ENG
Gruppo opzionale: FINAL EXAMINATION	E					

Economy and planning

Primo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9799256 - VEGETABLE AND ORNAMENTAL CROPS	B	AGRI-02/B	6	63	AP	ENG
9798514 - PLANT DISEASE MANAGEMENT	B	AGRI-05/B	6	63	AP	ENG
9798513 - SUSTAINABLE AGROECOSYSTEM			0	0	AP	ENG
MANAGEMENT OF SOIL ORGANIC MATTER	B	AGRI-06/B	6	63		
SUSTAINABLE MANAGEMENT OF CROPPING SYSTEMS	B	AGRI-02/A	6	63		
9798516 - WATER RESOURCE MANAGEMENT IN AGRICULTURE	C	AGRI-04/A	6	63	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798517 - FRUITCULTURE	B	AGRI-03/A	6	63	AP	ENG
9800287 - REAL ESTATE VALUATION AND COMMON AGRICULTURAL POLICIES			0	0	AP	ENG
RURAL ESTATE VALUATION	C	AGRI-01/A	6	63		
EUROPEAN AGRICULTURAL AND FISHERIES POLICY	B	AGRI-01/A	6	63		
9798519 - AGRICULTURAL MECHANISATION AND LABOUR ORGANISATION	B	AGRI-04/B	7	70	AP	ENG
9798520 - SUSTAINABLE PEST CONTROL	B	AGRI-05/A	6	63	AP	ENG

Secondo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9800380 - STRATEGIC MANAGEMENT OF AGRI-FOOD BUSINESSES, MARKET AND MARKETING			0	0	AP	ENG
STRATEGIC MANAGEMENT OF THE FARM	B	AGRI-01/A	6	63		
AGRI-FOOD MARKETS AND MARKETING	B	AGRI-01/A	6	63		
9800288 - SUSTAINABILITY IN LAND PLANNING AND RURAL BUILDING DESIGN	C	AGRI-04/C	6	63	AP	ENG

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798529 - TECHNOLOGIES FOR INNOVATION AND SAFETY IN AGRICULTURE	B	AGRI-04/B	6	63	AP	ENG
9798611 - OPTIONAL SUBJECT	D		12	126	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798613 - OTHER KNOWLEDGE USEFUL FOR JOB PLACEMENT	F		1	14	I	ENG
Gruppo opzionale: FINAL EXAMINATION	E					

Zootechnical

Primo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9799256 - VEGETABLE AND ORNAMENTAL CROPS	B	AGRI-02/B	6	63	AP	ENG
9798514 - PLANT DISEASE MANAGEMENT	B	AGRI-05/B	6	63	AP	ENG
9798513 - SUSTAINABLE AGROECOSYSTEM			0	0	AP	ENG
MANAGEMENT OF SOIL ORGANIC MATTER	B	AGRI-06/B	6	63		
SUSTAINABLE MANAGEMENT OF CROPPING SYSTEMS	B	AGRI-02/A	6	63		
9798516 - WATER RESOURCE MANAGEMENT IN AGRICULTURE	C	AGRI-04/A	6	63	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798517 - FRUITCULTURE	B	AGRI-03/A	6	63	AP	ENG
9800287 - REAL ESTATE VALUATION AND COMMON AGRICULTURAL POLICIES			0	0	AP	ENG
RURAL ESTATE VALUATION	C	AGRI-01/A	6	63		
EUROPEAN AGRICULTURAL AND FISHERIES POLICY	B	AGRI-01/A	6	63		
9798519 - AGRICULTURAL MECHANISATION AND LABOUR ORGANISATION	B	AGRI-04/B	7	70	AP	ENG
9798520 - SUSTAINABLE PEST CONTROL	B	AGRI-05/A	6	63	AP	ENG

Secondo anno

Primo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798530 - APPLIED ANIMAL PRODUCTION			0	0	AP	ENG
SUSTAINABLE MANAGEMENT OF ANIMAL PRODUCTION SYSTEM	B	AGRI-09/C	6	63		
EVALUATION TOOLS FOR QUALITY MANAGEMENT IN LIVESTOCK	B	AGRI-09/C	6	63		
9799258 - GENETIC IMPROVEMENT OF LIVESTOCK	B	AGRI-09/A	6	63	AP	ENG

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798532 - ANIMAL NUTRITION AND FEEDING	B	AGRI-09/B	6	63	AP	ENG
9798611 - OPTIONAL SUBJECT	D		12	126	AP	ENG

Secondo semestre

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
9798613 - OTHER KNOWLEDGE USEFUL FOR JOB PLACEMENT	F		1	14	I	ENG
Gruppo opzionale: FINAL EXAMINATION	E					

Dettaglio dei gruppi opzionali

Denominazione	Att. Form.	SSD	CFU	Ore	Tip. Att.	Lingua
Gruppo opzionale: FINAL EXAMINATION						
9798610 - FINAL EXAMINATION *(secondo semestre)*			0	0		
DATA ACQUISITION TOTALLY CARRIED OUT IN ITALY *(secondo semestre)*	E		18	450	AP	ENG
THESIS WRITING *(secondo semestre)*	E		4	100		
9798615 - FINAL EXAMINATION *(secondo semestre)*			0	0		
DATA ACQUISITION TOTALLY CARRIED OUT ABROAD *(secondo semestre)*	E		18	450	AP	ENG
THESIS WRITING *(secondo semestre)*	E		4	100		

Legenda

Tip. Att. (Tipo di attestato): **AP** (Attestazione di profitto), **AF** (Attestazione di frequenza), **I** (Idoneità)

Att. Form. (Attività formativa): **A** Attività formative di base **B** Attività formative caratterizzanti **C** Attività formative affini ed integrative **D** Attività formative a scelta dello studente (art.10, comma 5, lettera a) **E** Per la prova finale e la lingua straniera (art.10, comma 5, lettera c) **F** Ulteriori attività formative (art.10, comma 5, lettera d) **R** Affini e ambito di sede classe LMG/01 **S** Per stages e tirocini presso imprese, enti pubblici o privati, ordini professionali (art.10, comma 5, lettera e)

Obiettivi formativi

PROTECTED CULTIVATIONS

in Plant productions - Secondo anno - Primo semestre

The course is aimed at training specialists capable to analyse problems and evaluate possible options to get production from crops produced under modified micro- climatic conditions. These specialists will be able to put into practice the skills acquired with the purpose of planning and managing out-of-season production processes through the use of appropriate protection and suitable production techniques. At the end of the course the student will be able to design and manage cultivations in a protected environment.

SUSTAINABLE AGROECOSYSTEM

in Economy and planning - Primo anno - Primo semestre

Provide knowledge about the composition of soil organic matter, techniques to enhance it, and its functions, with a focus on rational soil management for conservation, fertility preservation, and improved yields through the management of agricultural production factors and technical means.

MANAGEMENT OF SOIL ORGANIC MATTER: in Economy and planning - Primo anno - Primo semestre, in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre, in Zootechnical - Primo anno - Primo semestre

The module aims to provide in-depth knowledge of natural organic matter dynamics and nutrients to understand the factors regulating plant growth, particularly in light of new scenarios arising from climate change. By the end of the course, students will have a comprehensive understanding of organic matter and nutrient dynamics in agricultural soils, as well as the relationships between soil nutritional properties and vegetation. Additionally, students will gain insights into the potential use of treated or untreated organic waste matrices to enhance soil organic content.

in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre

Provide knowledge about the composition of soil organic matter, techniques to enhance it, and its functions, with a focus on rational soil management for conservation, fertility preservation, and improved yields through the management of agricultural production factors and technical means.

SUSTAINABLE MANAGEMENT OF CROPPING SYSTEMS: in Economy and planning - Primo anno - Primo semestre, in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre, in Zootechnical - Primo anno - Primo semestre

The agroecology-focused module provides students with advanced knowledge and practical skills for the sustainable management of agricultural systems. It emphasizes the efficient use of resources to support soil conservation, maintain and enhance soil fertility, and improve long-term crop productivity. Special attention is given to cover crops, crop rotations, and intercropping as key tools to increase system resilience, optimize nutrient cycling, and promote biodiversity. The program develops a solid understanding of major agronomic factors and inputs, while addressing key aspects such as One Health, plant protection, animal welfare, and the conservation of non-renewable resources, in line with societal and market expectations. By the end of the course, students will be able to design and manage herbaceous cropping systems based on agroecological principles. They will gain skills in managing soil organic matter, fertilization, and the use of alternative nutrient sources as biofertilizer; they will also be introduced to the basics of irrigation and weed control. The course also introduces basic agronomic models, enabling students to understand crop growth and yield simulation and apply these tools at an introductory level to support decision-making in sustainable agriculture.

in Zootechnical - Primo anno - Primo semestre

Provide knowledge about the composition of soil organic matter, techniques to enhance it, and its functions, with a focus on rational soil management for conservation, fertility preservation, and improved yields through the management of agricultural production factors and technical means.

SUSTAINABILITY IN LAND PLANNING AND RURAL BUILDING DESIGN

in Economy and planning - Secondo anno - Primo semestre

The course aims to provide students with professional technical skills related to sustainable land planning and to the design and management of rural buildings, with a focus on environmental sustainability. Students will acquire tools for the environmental assessment of livestock buildings and rural facilities, including the application of international sustainability frameworks (IPCC, UNECE, and ISO standards for Life Cycle Assessment – LCA). The course also introduces digital tools such as Geographic Information Systems (GIS), Building Information Modelling (BIM), and sensors and IoT technologies for environmental monitoring in livestock housing. Environmental sustainability aspects, land monitoring, building design and cost estimation procedures (Bill of Quantities) are addressed through modern methods. The topics covered are further explored through case studies and practical application activities.

APPLIED ANIMAL PRODUCTION

EVALUATION TOOLS FOR QUALITY MANAGEMENT IN LIVESTOCK: in Zootechnical - Secondo anno - Primo semestre

The course aims to provide knowledge useful for assessing the effects of sustainable livestock production systems on the quality of animal-derived foods. Topics related to the objective evaluation and determination of the main parameters defining the quality of animal-derived foods and the possible factors causing variations will be addressed. Additionally, criteria for obtaining, evaluating, and presenting relevant objective data will be discussed. By the end of

the course, students will be able to evaluate the impact of sustainable livestock systems on the quality of animal-derived products by identifying the parameters of quality most influenced. Furthermore, students will be capable of objectively measuring some of these parameters and critically interpreting and presenting relevant data.

SUSTAINABLE MANAGEMENT OF ANIMAL PRODUCTION SYSTEM: in Zootechnical - Secondo anno - Primo semestre

The aim of the course is to deepen students' understanding of animal husbandry techniques aimed at ensuring the sustainability and quality of production. By the end of the course, students will be able to develop sustainable grazing management for ruminant species by selecting appropriate stocking rates based on adopted grazing techniques, as well as outdoor pig farming. Additionally, they will be able to assess the use of by-products from the agri-food industry in animal feed or other alternative food resources through analytical characterization and determine their effects on product quality. Students will also be able to critically evaluate organic animal production systems and their effects on animal product quality compared to "conventional" production techniques. Furthermore, they will be able to critically assess husbandry factors that can have a significant impact on the environment in terms of greenhouse gas emissions and develop possible husbandry strategies to mitigate this impact.

in Zootechnical - Secondo anno - Primo semestre

The course aims to enhance understanding of the impact of corporate-level strategies on improving the sustainability of livestock farming and product quality. This will be achieved by integrating an overall view of various production systems with the use of objective measurement and evaluation tools.

GENETIC IMPROVEMENT OF LIVESTOCK

in Zootechnical - Secondo anno - Primo semestre

The course aims to provide students with knowledge of genetic improvement in animal species for livestock production. Key concepts regarding the principles and techniques of selection in animal husbandry, the principles underlying biological diversity, and the reasons for applying molecular biology techniques will be presented to the students. By the end of the course, students will be able to apply some basic laboratory molecular biology techniques and grasp fundamental notions for computer-based management of genetic/genomic data. They will understand the issues/potential associated with managing livestock farms and evaluate the possibility of corrective interventions to enhance efficiency, also utilizing genomic tools. Lastly, students will possess the cultural elements and scientific language specific to genetics, genomics, and genetic improvement as applied to animal husbandry.

AGRICULTURAL MECHANISATION AND LABOUR ORGANISATION

in Economy and planning - Primo anno - Secondo semestre, in Plant productions - Primo anno - Secondo semestre, in Plant protection technologies - Primo anno - Secondo semestre, in Zootechnical - Primo anno - Secondo semestre

The objective of the course is to provide students with the necessary elements to properly plan and evaluate the organization of work carried out by machinery construction sites, as well as to proceed with the mechanization of agricultural enterprises, entire areas, or innovative crops for the territory by designing the corresponding machinery fleet in relation to business objectives, agronomic constraints, and economic context. Therefore, environmental, technological, economic, and human factors that contribute to achieving the objectives are taken into consideration and organized in relation to each other, while respecting natural and environmental resources and according to ergonomic and safety criteria for operators. Elements of group work organization and personal motivations are also included.

VEGETABLE AND ORNAMENTAL CROPS

in Economy and planning - Primo anno - Primo semestre, in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre, in Zootechnical - Primo anno - Primo semestre

The course aims to provide a comprehensive understanding of the cultivation of the most representative species in Mediterranean horticulture and floriculture. Its objective is to offer suitable preparation for organizing and managing the production process to achieve appropriate yields, product quality, and environmental sustainability. By the end of the course, students will be able to organize the production process of both vegetable and floral crops, taking into consideration their qualitative aspects and the sustainability of the production process itself.

TECHNOLOGIES FOR INNOVATION AND SAFETY IN AGRICULTURE

in Economy and planning - Secondo anno - Primo semestre

Provide the basic knowledge necessary for proper management and supervision of work processes, also from an energy perspective. Give adequate emphasis to aspects related to personnel safety in the workplace. At the end of the course, the student will be able to assess some basic processes (such as renewable energy production systems, characteristics of electricity for its use in the agro-industrial sector, selection and sizing of pumps for agricultural use), prioritizing the technical-engineering approach. Furthermore, they will be able to identify the main sources of risk associated with work activities (exposure to noise, exposure to vibrations, risks related to the use of spraying machines) and evaluate them in accordance with current regulations.

HERBACEOUS CROP SYSTEMS

BIOMASS CROPS FOR ENERGY: in Plant productions - Secondo anno - Primo semestre

Provide knowledge for the rational management of biomass crops for energy within agro-energy chains for the production of thermal-electric energy, biogas, bioethanol, and biodiesel. The course will also provide insights into topics necessary for the development of an agro-energy chain: Legislation, Biomass Sourcing, Logistics, Transformation Processes, Transformation Plant, End Use, Sustainability (Energy, Environmental, Economic, Social). At the end of the

course, students will have acquired the necessary skills in agronomic techniques for the main dedicated biomass crops in the Mediterranean environment, and on the main bioconversion processes for the production of renewable energy and non-energy products from a circular economy perspective.

in Plant productions - Secondo anno - Primo semestre

The aim is to acquire adequate knowledge of quality evaluation systems for crops of primary food interest and to study the principles of cultivation of annual and perennial herbaceous plants for livestock feeding, as well as species with potential interest for energy production.

WEED MANAGEMENT TECHNIQUES AND FERTILISATION: in Plant productions - Secondo anno - Primo semestre

Provide in-depth knowledge on the role, functions, and uptake of nutrients in cultivated plants, as well as on the biology, ecology, role, and impact of weeds in agroecosystems. Develop skills in formulating fertilization plans and techniques, as well as in managing weed control methods, both physical, chemical, and integrated, in major Mediterranean crops.

ARTHROPOD PEST MANAGEMENT IN MEDITERRANEAN CROPS

BIOLOGICAL CONTROL: in Plant protection technologies - Secondo anno - Primo semestre

The objective of the course is to offer a comprehensive understanding of multitrophic interactions among plants, arthropod pests, and their biocontrol agents in both natural and agricultural ecosystems. Additionally, the course provides detailed insights into the biology and rearing methods of natural enemies, as well as various biocontrol field strategies. Upon completion, students will be capable of implementing biological pest control strategies in Mediterranean crops.

(English)

INTEGRATED PEST MANAGEMENT: in Plant protection technologies - Secondo anno - Primo semestre

The course aims at providing advanced knowledge on the ecological role and harmfulness of key insect pests of the major Mediterranean crops. The main sustainable integrated management strategies specific for each key insect pest of the Mediterranean environment are also provided. Students will thus be able to recognize the key insect pest and their damage, as well as to develop specific integrated and sustainable control strategies against them.

in Plant protection technologies - Secondo anno - Primo semestre

The course aims to increase the knowledge on the ecological and phytosanitary importance of key arthropod plant pests and on their integrated and biocontrol strategies.

MEDITERRANEAN FRUIT TREE CROPS

in Plant productions - Secondo anno - Primo semestre

The course aims to provide students with in-depth knowledge of the interrelationships among biological, environmental, and technical-cultural factors involved in citrus, grape, and olive production. Specifically, students will be expected to address and resolve all issues related to variety selection and cultivation techniques, adopting the most appropriate ones according to specific needs. By the end of the course, students will be able to make autonomous agronomic decisions and assist stakeholders in the citrus, olive, and grape production sectors in making suitable pre-planting and management choices for sustainable and high-quality productions in the Mediterranean environment.

DIAGNOSIS IN PLANT PATHOLOGY

in Plant protection technologies - Secondo anno - Primo semestre

The course aims to provide knowledge on traditional and innovative methods for the diagnosis and characterization of the main plant disease agents. Students will learn various phytopathological diagnostic techniques (isolation, biological assay, serological and molecular methods for diagnosis, characterization, and identification of plant pathogens) as well as their use in diagnostic protocols required by regulations and legislation concerning quarantine pathogens and quality. Students will develop skills in selecting the most suitable diagnostic method for the rapid and accurate interception of pathogens in order to better guide prevention and control methods.

SUSTAINABLE PEST CONTROL

in Economy and planning - Primo anno - Secondo semestre, in Plant productions - Primo anno - Secondo semestre, in Plant protection technologies - Primo anno - Secondo semestre, in Zootechnical - Primo anno - Secondo semestre

The course aims to provide students with theoretical and practical insights into pest control methods in agriculture, developing technical skills for designing appropriate plant protection programs against insects and other harmful animal organisms. By the end of the course, students will have acquired specific and up-to-date knowledge of the main techniques for crop pest control.

PLANT DISEASE MANAGEMENT

in Economy and planning - Primo anno - Primo semestre, in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre, in Zootechnical - Primo anno - Primo semestre

The course aims to provide an in-depth understanding of crop protection in horticulture, floriculture, and fruit growing. It aims to train professionals capable of identifying and recommending the most suitable defense strategies to contain major disease agents. Additionally, the course will provide criteria for continuous professional updating in crop protection. By the end of the course, students will be able to consult specialized literature, use websites relevant to plant pathology, and develop effective eco-sustainable strategies against major plant disease agents.

BIOLOGICAL CONTROL OF PLANT DISEASES

in Plant protection technologies - Secondo anno - Primo semestre

The course aims to provide knowledge on biological defense of agricultural productions in pre- and post-harvest, essential for defining appropriate biological control programs. Special attention is given to the selection of antagonists, their modes of action, and their potential applications in major Mediterranean horticultural crops for the containment of significant pre- and post-harvest pathogens. By the end of the course, students will be able to plan and propose suitable biological control strategies for different horticultural contexts, both pre- and post-harvest.

WATER RESOURCE MANAGEMENT IN AGRICULTURE

in Economy and planning - Primo anno - Primo semestre, in Plant productions - Primo anno - Primo semestre, in Plant protection technologies - Primo anno - Primo semestre, in Zootechnical - Primo anno - Primo semestre

Provide knowledge on soil hydrology in agricultural land and irrigation techniques, as well as on the criteria for designing and sizing irrigation systems. Students should acquire knowledge about the design, maintenance, and operation of irrigation systems, with particular reference to surface and subsurface microirrigation systems. Additionally, students will gain insights into the use of unconventional water resources in agriculture. Furthermore, students will develop specific skills in water-saving methods and techniques in agriculture, particularly focusing on deficit irrigation.

FRUITCULTURE

in Economy and planning - Primo anno - Secondo semestre, in Plant productions - Primo anno - Secondo semestre, in Plant protection technologies - Primo anno - Secondo semestre, in Zootechnical - Primo anno - Secondo semestre

The course aims to provide knowledge on the cultivation of the main fruit tree species, especially those found in the Mediterranean environment. It delves into aspects related to crop framing, variety and rootstock selection, agronomic management of orchards, and cultivation techniques aimed at sustainable and quality production. By the end of the course, students will be able to address key agronomic decisions related to fruit tree cultivation in the Mediterranean environment and design environmentally and economically sustainable fruit orchards.

STRATEGIC MANAGEMENT OF AGRI-FOOD BUSINESSES, MARKET AND MARKETING

AGRI-FOOD MARKETS AND MARKETING: in Economy and planning - Secondo anno - Primo semestre

The course aims to provide students with the basic tools necessary to understand the market for agri-food products and its trends within developed economic systems, as well as to provide the methodological foundations and skills needed to analyze development strategies and marketing models in the competitive market. By the end of the course, students will be able to develop a marketing plan for accessing investment measures in rural development plans.

in Economy and planning - Secondo anno - Primo semestre

Essential tools are provided for defining the strategic and competitive orientation of the enterprise, as well as for analyzing and interpreting the structure and management of the agricultural enterprise. Additionally, fundamental instruments are offered for understanding the market of agri-food products and its trends

STRATEGIC MANAGEMENT OF THE FARM: in Economy and planning - Secondo anno - Primo semestre

Essential tools are provided for defining the strategic and competitive orientation of the enterprise and for analyzing and interpreting the structure and management of the agricultural enterprise, methods for planning entrepreneurial choices, and investment programming in agriculture, both short and long term. At the end of the course, students will be able to develop prospective and actual economic balances, as well as a business plan for accessing venture capital.

ANIMAL NUTRITION AND FEEDING

in Zootechnical - Secondo anno - Primo semestre

Provide skills for formulating rations based on the nutritional value of livestock feed and the nutritional requirements of animals. By the end of the course, students will be able to formulate rations for both monogastric and polygastric livestock.