



UNIVERSITÀ DEGLI STUDI DI SASSARI

DIPARTIMENTO DI AGRARIA



A.D. MDLXII

# UNIVERSITÀ DEGLI STUDI DI SASSARI

## DIPARTIMENTO DI AGRARIA



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Dipartimento di agraria- Università degli studi di Sassari



## Bachelor programmes

### AGRICULTURAL SCIENCES AND TECHNOLOGIES (OPEN ACCESS)

SEDE: SASSARI

1st year						
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory	
4000676	<a href="#">AGRICULTURAL GENETICS</a>	6	48	winter	Compulsory	
40002603	<a href="#">MATHEMATICS WITH ELEMENTS OF STATISTICS GENERAL AND INORGANIC CHEMISTRY</a>	8	64	winter	Compulsory	
40001180	<a href="#">PHYSICS</a>	8	64	spring	Compulsory	
40000672	<a href="#">PLANT BIOLOGY</a>	6	48	winter	Compulsory	
40000637	<a href="#">ENGLISH I</a>	10	80	spring	Compulsory	
40000683	<a href="#">OTHER TRAINING ACTIVITIES</a>	5	50	spring	Compulsory	
40101607	<a href="#">MYCOLOGY</a>	6			Compulsory	
40000695	<a href="#">CAD DESIGN FOR AGRICULTURAL ENGINEERING GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR APPLIED HYDROLOGY</a>	6	48		Optional	
A000606	<a href="#">AGRICULTURAL ENGINEERING GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR APPLIED HYDROLOGY</a>	6	48		Optional	
40004457	<a href="#">METODOLOGIA SPERIMENTALE AGRONOMICA</a>	3	24		Optional	
A000358	<a href="#">TECNICA FOTOGRAFICA</a>	6			Optional	
40004456						
2nd year						
40000633	<a href="#">AGRICULTURAL BIOCHEMISTRY</a>	7	56	spring	Compulsory	
40002750	<a href="#">AGRICULTURAL ECONOMICS</a>	7	56	winter	Compulsory	
40002757	<a href="#">AGRICULTURAL HYDRAULICS</a>	6	48	winter	Compulsory	
4000275	<a href="#">AGRICULTURAL MICROBIOLOGY</a>	6	48	spring	Compulsory	
40002759	<a href="#">ANIMAL SCIENCE</a>	8	64	winter	Compulsory	
40002754	<a href="#">ENGLISH II</a>	5	50	winter	Compulsory	
40003386	<a href="#">RURAL BUILDINGS AND TOPOGRAPHY</a>	8	64	spring	Compulsory	



3rd year						
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory	
40003388	<a href="#">AGRICULTURAL MACHINERY AND PLANTS</a>	6	48	winter	Compulsory	
40004162	<a href="#">AGRONOMY AND HERBACEOUS CROPS I</a>	10	80	spring	Compulsory	
A000528	<a href="#">GENERAL PLANT PATHOLOGY AND ENTOMOLOGY</a>	8	64	winter	Compulsory	
40003381	<a href="#">RURAL APPRAISAL</a>	8	64	spring	Compulsory	
40003385	<a href="#">SOIL CHEMISTRY</a>	7	56	winter	Compulsory	
40003385	<a href="#">TREE CROPS</a>	8	64	spring	Compulsory	
10000800	<a href="#">PRACTICAL TRAINING APPLICATION</a>	15	225		Compulsory	
10000008	<a href="#">FINAL TEST</a>	10			Compulsory	

#### COURSE IN BRIEF

The Bachelor in Agricultural Science and Technology aims to provide the student, after acquisition of mathematical, physical, chemical and biological basic knowledge, expertise in economic sectors, estimate of crop farming and animal husbandry, agricultural engineering, which will allow to carry out a professional activity in the agricultural sector, with regard to:

- Technical and economic management of the company and agrarian estimate of landed property;
- Recognition and defence of crops;
- Recognition of livestock production;
- Building design and management of agricultural systems.

#### AREAS FOR CAREER OPPORTUNITIES

##### Position in a workplace:

The functions in work environment of the degree in Agricultural Sciences and Technologies include:

- The applications of technology to agricultural production systems taking into account the qualitative aspects;
- The management of the production of goods and services in agriculture;
- Analysis, technical assistance and dissemination to agricultural and agro-industrial enterprises in the sectors of production plants and animals, the defence of the plants, the agricultural product quality control.

##### Position-related skills:

Graduates in Agricultural Science and Technology will carry out their functions with the following skills:

- Management of production processes in the field of agriculture and agro-environment, with basic skills on systems management cultivation and breeding;
- Basic knowledge of agricultural production systems, including mechanization and the biology of pathogens and parasites;
- Specific skills in rural estimates, agricultural economy and company's accounting;
- Specific skills in sizing of rural construction, the hydraulic and agricultural infrastructures.

##### Career opportunities:

The graduate can take the qualification to the profession of agronomist and forest junior doctor, he graduated master in agriculture and agro-technicians graduated. The graduate in Agricultural Sciences and Technologies can be employed as an employee of public and private institutions with roles technicians in the specific areas of expertise.



## Bachelor programmes

### AGROZOOTECNICAL SCIENCES (OPEN ACCESS)

SEDE: SASSARI

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40002603	<u>MATHEMATICS WITH ELEMENTS OF STATISTICS</u>	8	64	winter	Compulsory
40000672	<u>PHYSICS</u>	6	48	winter	Compulsory
40000637	<u>PLANT BIOLOGY</u>	8	64	spring	Compulsory
40001180	<u>GENERAL AND INORGANIC CHEMISTRY</u>	8	64	spring	Compulsory
40002748	<u>ANATOMY, PHYSIOLOGY AND MORPHOLOGY OF DOMESTIC ANIMALS</u>	7	56	winter	Compulsory
40000683	<u>ENGLISH I</u>	5	50	spring	Compulsory
40101607	<u>OTHER TRAINING ACTIVITIES FISHERIES ECONOMICS AND</u>	2		spring	Compulsory
A000271	<u>MANAGEMENT IN THE MEDITERRANEAN SEA</u>	6	48	spring	Elective Course
2nd year					
40000633	<u>AGRICULTURAL BIOCHEMISTRY</u>	7	56	winter	Compulsory
40002750	<u>AGRICULTURAL ECONOMICS</u>	6	48	spring	Compulsory
40000676	<u>AGRICULTURAL GENETICS</u>	6	48	winter	Compulsory
40002751	<u>AGRONOMY</u>	7	56	spring	Compulsory
40002752	<u>ANIMAL BREEDING</u>	7	56	spring	Compulsory
40100702	<u>ANIMAL NUTRITION AND FEEDING</u>	7	56	spring	Compulsory
40002754	<u>ENGLISH II</u>	5	50	winter	Compulsory
40002753	<u>MICROBIOLOGY OF ZOOTECNICAL PRODUCTS</u>	6	48	winter	Compulsory
3st year					
40004753	<u>ACQUACOLTURA ED ALLEVAMENTI AVI-CUNICOLI</u>	8	64	winter	Compulsory
40003383	<u>ANIMAL HUSBANDRY I (RUMINANTS)</u>	7	56	winter	Compulsory
40003384	<u>ANIMAL HUSBANDRY II (SWINE)</u>	6	48	spring	Compulsory
40003382	<u>MECHANIZATION OF CROP AND LIVESTOCK FARMS</u>	7	56	Spring	Compulsory
40003381	<u>RURAL APPRAISAL</u>	6	48	winter	Compulsory
40002749	<u>HERBACEOUS CROPS</u>	7	56	spring	Compulsory
40003380	<u>AGRICULTURAL-ZOOTECNICAL BUILDINGS</u>	7	56	winter	Compulsory
10000800	<u>PRACTICAL TRAINING APPLICATION</u>	15	225		Compulsory
10000008	<u>FINAL TEST</u>	10			Compulsory

#### PROFESSIONAL OPPORTUNITIES:

- Animal production engineer
- Public administration manager
- Extention officer on livestock farming in the private or public domain
- Quality certification consultancy
- Animal production research and development organisations



## Bachelor programmes

### FORESTRY AND ENVIRONMENTAL SCIENCES (OPEN ACCESS)

SEDE: NUORO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
A000623	<u>CAD DESIGN FOR FORESTRY ENGINEERING</u>	6	48		Optional
40004464	<u>DEFENSE AGAINST FOREST FIRES</u>	6	48	winter	Optional
40000683	<u>ENGLISH I</u>	5	50	winter	Compulsory
40004462	<u>FORESTRY BEEKEEPING</u>	3	48		Optional
40000645	<u>GENERAL AND INORGANIC CHEMISTRY</u>	8	64	winter	Compulsory
40000691	<u>MATHEMATICS</u>	7	56	winter	Compulsory
40000695	<u>MYCOLOGY</u>	6	48		Optional
40002747	<u>ORGANIC CHEMISTRY AND AGRICULTURAL BIOCHEMISTRY</u>	6	48	spring	Compulsory
A000603	<u>PHYSICS APPLIED TO FOREST SCIENCE</u>	6	48	winter	Compulsory
40002760	<u>PLANT BIOLOGY</u>	12	96	spring	Compulsory
A001644	<u>PRINCIPI DI ECOLOGIA E BOTANICA FORESTALE</u>	10	80	spring	Compulsory
2nd year					
40003393	<u>ECONOMICS AND FOREST APPRAISAL</u>	10	80	spring	Compulsory
40000684	<u>ENGLISH II</u>	5	50	spring	Compulsory
40000698	<u>FOREST AND ENVIRONMENTAL MICROBIOLOGY</u>	6	48	spring	Compulsory
A000084	<u>FOREST ZOOLOGY AND ANIMAL HUSBANDRY</u>	12	96	spring	Compulsory
40003631	<u>GENETICS OF FOREST SYSTEMS</u>	6	48	winter	Compulsory
40002612	<u>SILVICULTURE</u>	10	80	spring	Compulsory
40002755	<u>SOIL CHEMISTRY</u>	6	48	spring	Compulsory
40001054	<u>SOIL SCIENCES</u>	6	48	winter	Compulsory
3st year					
40000622	<u>AGRONOMY AND HERBACEOUS CROPS</u>	6	48	spring	Compulsory
40003429	<u>FOREST INVENTORIES</u>	6	48	winter	Compulsory
40003392	<u>FOREST MENSURATION</u>	6	48	winter	Compulsory
40000707	<u>FOREST PLANT PATHOLOGY</u>	6	48	spring	Compulsory
40003394	<u>HYDRAULICS AND HYDRAULIC-FORESTRY ARRANGEMENTS</u>	6	48	spring	Compulsory
40000725	<u>TOPOGRAPHY AND CARTOGRAPHY AND FOREST BUILDINGS</u>	8	64	winter	Compulsory
10000800	<u>PRACTICAL TRAINING APPLICATION</u>	10	150		Compulsory
10000008	<u>FINAL TEST</u>	5			Compulsory



## Bachelor programmes

### VITICULTURAL, OENOLOGICAL AND FOOD TECHNOLOGIES – CURRICULUM FOOD TECHNOLOGIES (OPEN ACCESS)

SEDE: ORISTANO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
A000941	<a href="#">BEEKEEPING AND PRODUCTS OF THE HIVE</a>	6	48	winter	Optional
A000604	<a href="#">ECONOMICS AND MARKETING OF FOOD MARKETS</a>	8	64	winter	Compulsory
4000683	<a href="#">ENGLISH I</a>	5	50	spring	Compulsory
A000364	<a href="#">FOOD BIOCHEMISTRY</a>	6	48	spring	Optional
A000943	<a href="#">FOOD BIOTECHNOLOGY</a>	6	48	spring	Optional
A001755	<a href="#">FOODPRINT (STIMARE E COMUNICARE IL COSTO AMBIENTALE DELLE PRODUZIONI ALIMENTARI)</a>	6	48	spring	Optional
4000645	<a href="#">GENERAL AND INORGANIC CHEMISTRY</a>	8	64	winter	Compulsory
A001369	<a href="#">GENETICS AND BREEDING OF V. VINIFERA</a>	6	48	spring	Optional
A000564	<a href="#">MATHEMATICAL MODELING FOR ALIMENTARY TECHNOLOGIES</a>	8	64	winter	Compulsory
A000626	<a href="#">MONITORING OF THE BIOTIC ADVERSITY</a>	6	34	spring	
400027478	<a href="#">ORGANIC CHEMISTRY AND AGRICULTURAL BIOCHEMISTRY</a>	10	80	winter	Compulsory
40101607	<a href="#">OTHER TRAINING ACTIVITIES</a>	3			Compulsory
40000672	<a href="#">PHYSICS</a>	6	48	winter	Compulsory
40000637	<a href="#">PLANT BIOLOGY</a>	8	64	spring	Compulsory
	<a href="#">VITICULTURE PRACTICALS</a>	6		Spring	Optional
2nd year					
4000643	<a href="#">ANALYTICAL CHEMISTRY</a>	6	48	spring	Compulsory
4000684	<a href="#">ENGLISH II</a>	5	50	winter	Compulsory
A001676	<a href="#">ENTOMOLOGIA MERCEOLOGICA E MICOTOSSINE</a>	11	88	spring	Compulsory
40002620	<a href="#">INDUSTRIAL TECHNICAL PHYSICS</a>	6	48	winter	Compulsory
40002621	<a href="#">MICROBIOLOGY AND GENETICS OF MICROORGANISMS</a>	7	56	spring	Compulsory
40000703	<a href="#">UNIT OPERATIONS</a>	6	48	spring	Compulsory
40004166	<a href="#">VEGETABLE PRODUCTIONS</a>	10	80	winter	Compulsory



3st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40003404	<a href="#">ANIMAL PRODUCTION</a>	6	48	winter	Compulsory
A000569	<a href="#">EDIFICI PER L' INDUSTRIA AGRO-ALIMENTARE</a>	4	32	spring	Compulsory
40004165	<a href="#">FOOD CHEMICAL ANALYSIS</a>	6	48	spring	Compulsory
40003401	<a href="#">FOOD HYGIENE</a>	6	48	winter	Compulsory
40003403	<a href="#">FOOD MICROBIOLOGY</a>	6	48	winter	Compulsory
40003390	<a href="#">FOOD TECHNOLOGY PROCESSES</a>	8	64	winter	Compulsory
40003402	<a href="#">MACHINERY AND PLANTS FOR THE FOOD INDUSTRY</a>	6	48	spring	Compulsory
10000800	<a href="#">PRACTICAL TRAINING APPLICATION</a>	14	210		
10000008	<a href="#">FINAL TEST</a>	10			

#### COURSE IN BRIEF

It provides adequate capacity to operate in food production, storage and distribution sectors, to ensure the sanitary requirements and food quality. It also provides mastery of chemical, physical, sensory and microbiological methods for monitoring and evaluation of food and raw materials

#### PROFESSIONAL OPPORTUNITIES:

Graduates carry out control and management tasks in the production, storage, distribution and administration activities of food and beverages. His professional activity takes place primarily in food companies



## Bachelor programmes

### VITICULTURAL, OENOLOGICAL AND FOOD TECHNOLOGIES – CURRICULUM VITICULTURAL AND OENOLOGY (OPEN ACCESS)

SEDE: ORISTANO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
A000941	<a href="#">BEEKEEPING AND PRODUCTS OF THE HIVE</a>	6	48	winter	Optional
A000604	<a href="#">ECONOMICS AND MARKETING OF FOOD MARKETS</a>	8	64	winter	Compulsory
4000683	<a href="#">ENGLISH I</a>	5	50	spring	Compulsory
A000364	<a href="#">FOOD BIOCHEMISTRY</a>	6	48	spring	Optional
A000943	<a href="#">FOOD BIOTECHNOLOGY</a>	6	48	spring	Optional
A001755	<a href="#">FOODPRINT (STIMARE E COMUNICARE IL COSTO AMBIENTALE DELLE PRODUZIONI ALIMENTARI)</a>	6	48	spring	Optional
4000645	<a href="#">GENERAL AND INORGANIC CHEMISTRY</a>	8	64	winter	Compulsory
A001369	<a href="#">GENETICS AND BREEDING OF V. VINIFERA</a>	6	48	spring	Optional
A000564	<a href="#">MATHEMATICAL MODELING FOR ALIMENTARY TECHNOLOGIES</a>	8	64	winter	Compulsory
A000626	<a href="#">MONITORING OF THE BIOTIC ADVERSITY</a>	6	34	spring	
40002747	<a href="#">ORGANIC CHEMISTRY AND AGRICULTURAL BIOCHEMISTRY</a>	10	80	winter	Compulsory
40101607	<a href="#">OTHER TRAINING ACTIVITIES</a>	3			Compulsory
40000672	<a href="#">PHYSICS</a>	6	48	winter	Compulsory
40000637	<a href="#">PLANT BIOLOGY</a>	8	64	spring	Compulsory
A001370	<a href="#">VITICULTURE PRACTICALS</a>	6	48	Spring	Optional
2nd year					
40000643	<a href="#">ANALYTICAL CHEMISTRY</a>	6	48	winter	Compulsory
40000684	<a href="#">ENGLISH II</a>	5	50	spring	Compulsory
40003613	<a href="#">ENOLGY I</a>	6	48	winter	Compulsory
A000568	<a href="#">ENOLOGICAL CHEMISTRY AND LABORATORY ANALYSES</a>	6	48	spring	Compulsory
40000179	<a href="#">GENERAL MICROBIOLOGY</a>	7	56	winter	Compulsory
40002626	<a href="#">INSTITUTES OF VITICULTURE</a>	8	64	spring	Compulsory
40002755	<a href="#">SOIL CHEMISTRY</a>	4	32	winter	Compulsory
A000567	<a href="#">VITICULTURAL MECHANIZATION AND WINE MAKING PLANT</a>	8	64	winter	Compulsory



3st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
A000565	<a href="#">BUILDINGS FOR THE WINERY INDUSTRY</a>	4	32	winter	Compulsory
40003405	<a href="#">ENOLGY II</a>	7	56	spring	Compulsory
40003406	<a href="#">VITICULTURAL ENTOMOLOGY</a>	7	56	spring	Compulsory
40003408	<a href="#">VITICULTURAL PATHOLOGY</a>	8	64	winter	Compulsory
40003615	<a href="#">VITICULTURAL TECHNIQUES</a>	6	64	winter	Compulsory
40003407	<a href="#">WINE MICROBIOLOGY</a>	9	72	spring	Compulsory
10000800	<a href="#">PRACTICAL TRAINING APPLICATION</a>	14	210		
10000008	<a href="#">FINAL TEST</a>	5			

#### COURSE IN BRIEF:

Ensures adequate capacity to operate in all stages of the supply chain ranging from production to consumption of grapes and wine and to reduce waste.

#### PROFESSIONAL OPPORTUNITIES:

Graduates can find employment throughout the wine-growing sector, particularly in the direction of vineyards and wine making farms or in the provision of external professional services.



MASTER'S DEGREE PROGRAMME:

AGRICULTURAL SYSTEMS– CURRICULUM PRECISION AGRICULTURE

SEDE: SASSARI

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40000712	<u>AGRICULTURAL POLICY</u>	6	48	spring	Compulsory
A000368	<u>BIODIVERSITY STUDIES BY APPLICATIONS OF GENOME ANALYSES</u>	3	41	spring	Optional
40003415	<u>ENERGY APPLIED TO RURAL SYSTEMS</u>	6	48	spring	Compulsory
40000675	<u>FLORICULTURE</u>	3	24	spring	Optional
40000714	<u>FOOD TECHNOLOGY PROCESSES</u>	7	56	winter	Compulsory
40003619	<u>HERBACEOUS CROPS II</u>	7	56	spring	Compulsory
40003418	<u>MEDITERRANEAN TREE CROPS</u>	6	48	spring	Compulsory
40004501	<u>OTHER ACTIVITIES</u>	3	24		Optional
40000706	<u>PLANT PATHOLOGY</u>	6	48	winter	Compulsory
40002340	<u>PLANT TISSUE CULTIVATIONS</u>	7	56	spring	
40002766	<u>SOIL SCIENCES AND TECHNIQUES OF LAND EVALUATION</u>	7	56	winter	Compulsory
A000991	<u>TECHNICAL ENGLISH</u>	5	50	spring	Compulsory
A000975	<u>PIANTE OFFICINALI: COLTIVAZIONE E PRIMA TRASFORMAZIONE</u>	7	56	spring	Optional
2nd year					
40000737	<u>ANIMAL HUSBANDRY</u>	7	56	winter	Optional
A000228	<u>CROPPING SYSTEM DESIGN</u>	7	56	spring	Compulsory
A001647	<u>IDROLOGIA DEL SUOLO E TECNICA IRRIGUA</u>	7	56	winter	Optional
A001649	<u>MODELLI MATEMATICI E STATISTICI PER L'AGRICOLTURA E LA ZOOTECNICA DI PRECISIONE</u>	7	73	spring	Optional
A001648	<u>TECNICHE DIGITALI DI PIANIFICAZIONE DEL PAESAGGIO RURALE</u>	7	56	winter	Optional
40003424	<u>POLLUTION AND CONTROL OF THE AGRICULTURAL ENVIRONMENT</u>	7	56	winter	Optional
A001650	<u>TECNOLOGIE AVANZATE NELLA DIFESA FITOSANITARIA</u>	7	56	Single Annual Cycle	Optional
A001654	<u>TECNOLOGIE PER L'AGRICOLTURA DI PRECISIONE</u>	7	56	winter	Optional
30000635	<u>FINAL TEST</u>	25			Compulsory



COURSE IN BRIEF

The course will enable graduates to: carry out monitoring activities and environmental analysis through modern techniques detection, representation and analysis of spatial data; manage local water resources and use tools and techniques conservation and protection of soil, in order to preserve fertility and to ensure adequate hydraulic trim and hydrogeological; to have knowledge in the business organization (corporate culture) and professional ethics. In particular, it will be enhanced training in crop production and in organic crop management with activities dedicated to processing and marketing.

AREAS FOR CAREER OPPORTUNITIES

**Position in a workplace:**

Graduates in Agricultural Systems can take on technical tasks also executive-type public institutions or companies, and private in the agricultural sector. It is able to address issues affecting rural areas system, to carry out self-employment in multidisciplinary teams in the role of designer, technical consultant, responsible for a whole production system or a specific stage of production, in food chains and agribusinesses.

**Position-related skills:**

The master's degree has multidisciplinary skills in technical-scientific-oriented agricultural systems. In particular, the master graduates possess knowledge and tools for the planning, management, monitoring, coordination agricultural and livestock production processes, to meet the needs of the market and the consumer regarding the quality and safety of products, sustainable management of natural resources of rural areas. The skills thus inquire about the following subjects:

- Food and non-food agricultural productions;
- Sustainable management of soil fertility;
- Phytosanitary defence and foodstuffs;
- Agricultural engineering.

**Career opportunities:**

The master's degree will be employed by the primary sector companies regarding aspects purely production and in the processing and marketing of agricultural products, in the public and private entities lead the planning, analysis, control, certification, and in those who carry out research activities in the field agricultural and training institutions, in drawing offices and in private practice



MASTER'S DEGREE PROGRAMME:

AGRICULTURAL SYSTEMS:—CURRICULUM INTEGRATED DEFENSE

SEDE: SASSARI

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
4000712	<u>AGRICULTURAL POLICY</u>	6	48	spring	Compulsory
A000368	<u>BIODIVERSITY STUDIES BY APPLICATIONS OF GENOME ANALYSES</u>	3	41	spring	Optional
40003415	<u>ENERGY APPLIED TO RURAL SYSTEMS</u>	6	48	winter	Compulsory
4000675	<u>FLORICULTURE</u>	3	24	spring	Optional
4000714	<u>FOOD TECHNOLOGY PROCESSES</u>	7	56	winter	Compulsory
40003619	<u>HERBACEOUS CROPS II</u>	7	56	spring	Compulsory
40003418	<u>MEDITERRANEAN TREE CROPS</u>	6	48	spring	Compulsory
40004501	<u>OTHER ACTIVITIES</u>	3	24		Optional
4000706	<u>PLANT PATHOLOGY</u>	6	48	winter	Compulsory
40002340	<u>PLANT TISSUE CULTIVATIONS</u>	7	56	spring	Optional
40002766	<u>SOIL SCIENCES AND TECHNIQUES OF LAND EVALUATION</u>	7	56	winter	Compulsory
A000991	<u>TECHNICAL ENGLISH</u>	5	50	spring	Compulsory
2nd year					
40003423	<u>ANIMAL PARASITOLOGY OF PLANTS</u>	7	56	spring	Optional
40004172	<u>ECOSUSTAINABLE DEFENCE AGAINST INSECTS</u>	7	56	winter	Compulsory
4000701	<u>GENETIC IMPROVEMENT OF GROWN PLANTS</u>	7	56	winter	Optional
40003426	<u>HEALTH IMPROVEMENT AND PLANT CERTIFICATION</u>	7	56	spring	Optional
A000230	<u>HORTICULTURE AND GREENHOUSE CULTURE</u>	7	56	winter	Optional
40004176	<u>INTEGRATED DEFENCE AGAINST PATHOGENS</u>	7	56	spring	Optional
40002765	<u>TREE SYSTEMS</u>	7	56	spring	Optional
30000635	<u>FINAL TEST</u>	25			Compulsory



COURSE IN BRIEF

The course will enable graduates to: carry out monitoring activities and environmental analysis through modern techniques detection, representation and analysis of spatial data; manage local water resources and use tools and techniques conservation and protection of soil, in order to preserve fertility and to ensure adequate hydraulic trim and hydrogeological; to have knowledge in the business organization (corporate culture) and professional ethics. In particular, it will be enhanced training in crop production and in organic crop management with activities dedicated to processing and marketing.

POSITION IN A WORKPLACE:

Graduates in Agricultural Systems can take on technical tasks also executive-type public institutions or companies, and private in the agricultural sector. It is able to address issues affecting rural areas system, to carry out self-employment in multidisciplinary teams in the role of designer, technical consultant, responsible for a whole production system or a specific stage of production, in food chains and agribusinesses.

POSITION-RELATED SKILLS:

The master's degree has multidisciplinary skills in technical-scientific-oriented agricultural systems. In particular, the master graduates possess knowledge and tools for the planning, management, monitoring, coordination agricultural and livestock production processes, to meet the needs of the market and the consumer regarding the quality and safety of products, sustainable management of natural resources of rural areas. The skills thus inquire about the following subjects:

- Food and non-food agricultural productions;
- Sustainable management of soil fertility;
- Phytosanitary defense and foodstuffs;
- Agricultural engineering.

CAREER OPPORTUNITIES:

The master's degree will be employed by the primary sector companies regarding aspects purely production and in the processing and marketing of agricultural products, in the public and private entities lead the planning, analysis, control, certification, and in those who carry out research activities in the field agricultural and training institutions, in drawing offices and in private practice.



MASTER'S DEGREE PROGRAMME:

ANIMAL PRODUCTION SCIENCE

SEDE: SASSARI

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
A000231	<u>ANIMAL PATHOPHYSIOLOGY AND FARM HYGIENE</u>	8	64	winter	Compulsory
40002773	<u>ECONOMICS OF AGRO-ZOOTECHNICS</u>	6	48	winter	Compulsory
40003945	<u>FEEDING AND HUSBANDRY TECHNIQUES FOR PRODUCTS QUALITY</u>	12	56	winter	Compulsory
40002774	<u>FORAGE SYSTEMS</u>	6	48	spring	Compulsory
40002250	<u>GENETICS APPLIED TO LIVESTOCK PRODUCTIONS</u>	6	48	winter	Compulsory
40002772	<u>MATHEMATICAL AND STATISTICAL MODELS FOR ANIMAL SCIENCE</u>	6	48	spring	Compulsory
A000272	<u>NUTRITION AND FEEDING OF THE CAT AND THE DOG</u>	6	48		Optional
A000932	<u>RIPRODUZIONE ANIMALE</u>	6	48		Optional
A000991	<u>TECHNICAL ENGLISH</u>	5	50	spring	Compulsory
10800850	<u>TECNICA AGRONOMICA DELL'IRRIGAZIONE</u>	6	48		Optional
2nd year					
40000714	<u>FOOD TECHNOLOGY PROCESSES</u>	6	48	winter	Compulsory
40003432	<u>HORSE BREEDING</u>	6	48	spring	Compulsory
40003431	<u>LIVESTOCK BUILDINGS DESIGN</u>	6	48	spring	Compulsory
40004180	<u>OTHER TRAINING ACTIVITIES ZOOTECNIC ENTOMOLOGY AND PLANT PATHOLOGY</u>	5	80	winter	Compulsory
40003634	<u>ZOOTECNICAL LIQUID WASTE IMPACT IN THE AGRICULTURAL ENVIRONMENT</u>	6	48	spring	Compulsory
10000008	<u>FINAL TEST</u>	20			Compulsory

PROFESSIONAL OPPORTUNITIES:

- Livestock farm practitioner
- Public administration officer
- Extension service officer on livestock farming
- Feed industry
- Animal products companies



MASTER'S DEGREE PROGRAMME:

FOREST AND ENVIRONMENTAL SYSTEMS - PRODUZIONI SOSTENIBILI

SEDE: NUORO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40000817	<u>ECONOMIC EVALUATION OF ENVIRONMENTAL IMPACT</u>	6	48	winter	Compulsory
40003395	<u>FORESTRY MECHANIZATION</u>	6	48	winter	Compulsory
A001366	<u>GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR APPLIED HYDROLOGY</u>	3	24	spring	Optional
10360743	<u>GEOLOGIA AMBIENTALE</u>	6	48	winter	Compulsory
40002768	<u>MICROBIOLOGICAL MONITORING AND FORESTRY AND ENVIRONMENTAL ECO-CERTIFICATION</u>	6	48	winter	Optional
40000792	<u>MONITORING AND SAFEGUARD OF FOREST SYSTEMS HEALTH STATE</u>	12	96	winter	Compulsory
40101607	<u>OTHER TRAINING ACTIVITIES</u>	5			Compulsory
A000938	<u>RURAL LANDSCAPE PLANNING</u>	8	64	winter	Compulsory
ZZ100920	<u>TECHNIQUES OF ENVIRONMENTAL IMPACT ASSESSMENT</u>	6	48	spring	Optional
40000809	<u>TECHNIQUES OF LAND EVALUATION</u>	7	56	spring	Compulsory
2nd year					
A001705	<u>PIANTE OFFICINALI E FRUTTICOLTURA MONTANA</u>	6	48	winter	Compulsory
A001701	<u>ARBORICOLTURA DEL LEGNO E BIOMASSA</u>	6	48	winter	Compulsory
A001702	<u>PRODUZIONI FORESTALI MINORI</u>	8	64	Spring	Compulsory
A001689	<u>SISTEMI FORAGGERI E ZOOTECNICI</u>	12	96	spring	Compulsory
A001754	<u>TECHNICAL ENGLISH</u>	5	50	winter	Compulsory
A001700	<u>TECNICHE VIVAISTICHE</u>	6		winter	Compulsory
10000008	<u>FINAL TEST</u>	5			Compulsory





MASTER'S DEGREE PROGRAMME:

FOREST AND ENVIRONMENTAL SYSTEMS- PROGETTAZIONE E GESTIONE SOSTENIBILE (OPEN ACCESS)

SEDE: NUORO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40000817	<a href="#">ECONOMIC EVALUATION OF ENVIRONMENTAL IMPACT</a>	6	48	winter	Compulsory
40003395	<a href="#">FORESTRY MECHANIZATION</a>	6	48	winter	Compulsory
A001366	<a href="#">GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR APPLIED HYDROLOGY</a>	3	24	spring	Optional
10360743	<a href="#">GEOLOGIA AMBIENTALE</a>	6	48	winter	Compulsory
40002768	<a href="#">MICROBIOLOGICAL MONITORING AND FORESTRY AND ENVIRONMENTAL ECO-CERTIFICATION</a>	6	48	winter	Optional
40000792	<a href="#">MONITORING AND SAFEGUARD OF FOREST SYSTEMS HEALTH STATE</a>	12	96	winter	Compulsory
40101607	<a href="#">OTHER TRAINING ACTIVITIES</a>	5			Compulsory
A000938	<a href="#">RURAL LANDSCAPE PLANNING</a>	8	64	winter	Compulsory
ZZ100920	<a href="#">TECHNIQUES OF ENVIRONMENTAL IMPACT ASSESSMENT</a>	6	48	spring	Optional
40000809	<a href="#">TECHNIQUES OF LAND EVALUATION</a>	7	56	spring	Compulsory
2nd year					
	<a href="#">DESIGN AND MANAGEMENT OF URBAN AND PERIURBAN GREEN</a>	6		winter	
	<a href="#">ECOPHYSIOLOGY OF TREE SYSTEMS</a>	7			
	<a href="#">FOREST PLANNING AND MANAGEMENT</a>	7			
A001754	<a href="#">SISTEMI FORAGGERI E ZOOTECNICI</a>	12			
	<a href="#">TECHNICAL ENGLISH</a>	5	50		
	<a href="#">WOOD TECHNOLOGY AND FOREST UTILIZATIONS</a>	6			
10000008	<a href="#">FINAL TEST</a>	5			Compulsory



MASTER'S DEGREE PROGRAMME:

FOREST AND ENVIRONMENTAL SYSTEM- PROTEZIONE CIVILE (OPEN ACCESS)

SEDE: NUORO

1st year					
CODE	TITLE	ECTS	Hours of classroom activity	SEMESTER	Optional/Mandatory
40000817	<a href="#">ECONOMIC EVALUATION OF ENVIRONMENTAL IMPACT</a>	6	48	winter	Compulsory
40003395	<a href="#">FORESTRY MECHANIZATION</a>	6	48	winter	Compulsory
A001366	<a href="#">GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR APPLIED HYDROLOGY</a>	3	24	spring	Optional
10360743	<a href="#">GEOLOGIA AMBIENTALE</a>	6	48	winter	Compulsory
40002768	<a href="#">MICROBIOLOGICAL MONITORING AND FORESTRY AND ENVIRONMENTAL ECO-CERTIFICATION</a>	6	48	winter	Optional
40000792	<a href="#">MONITORING AND SAFEGUARD OF FOREST SYSTEMS HEALTH STATE</a>	12	96	winter	Compulsory
40101607	<a href="#">OTHER TRAINING ACTIVITIES</a>	5			Compulsory
A000938	<a href="#">RURAL LANDSCAPE PLANNING</a>	8	64	winter	Compulsory
ZZ100920	<a href="#">TECHNIQUES OF ENVIRONMENTAL IMPACT ASSESSMENT</a>	6	48	spring	Optional
40000809	<a href="#">TECHNIQUES OF LAND EVALUATION</a>	7	56	spring	Compulsory
2nd year					
A001692	<a href="#">AGROMETEOROLOGIA, ANALISI E MONITORAGGIO DEL CAMBIAMENTO CLIMATICO</a>	7	56	winter	Compulsory
A001696	<a href="#">GESTIONE E VALUTAZIONE DEL RISCHIO AMBIENTALE</a>	13	104	Single Annual Cycle	Compulsory
A001693	<a href="#">PREVENZIONE E CONTROLLO DEGLI INCENDI BOSCHIVI</a>	6	48	winter	Compulsory
A001695	<a href="#">SISTEMI DI TELECOMUNICAZIONE PER LA PROTEZIONE CIVILE</a>	6	48	spring	Compulsory
A001754	<a href="#">TECHNICAL ENGLISH</a>	5	50	winter	Compulsory
A001694	<a href="#">TECNICHE DI PROTEZIONE CIVILE</a>	6	48	Spring	Compulsory
10000008	<a href="#">FINAL TEST</a>	5			Compulsory

PROFESSIONAL OPPORTUNITIES (FOREST AND ENVIRONMENTAL SYSTEMS)

- Forestry and environment engineer
- Forestry department manager
- Forestry and environment agencies
- Forestry research support

realizzata con la collaborazione delle tutor Eras+mus: Lisa Deiana e Rita Usala