



università
degli studi
mediterranea
di reggio
calabria



mediterranea
è l'Università

Agraria

noi amiamo la nostra terra

2026-2027

GUIDE

25th Year of Publication



ENGLISH VERSION

we love our land

Dear Student...



In a world that demands continuously evolving skill sets, the Department of Agricultural Sciences' range of courses addresses the new challenges arising in the fields of agriculture, food, the environment and forestry, as well as in relation to sustainable biotechnology applications. The agricultural, food, forestry and environmental sectors – not to mention the biotechnology sector – are attracting a great deal of interest in light of the ambitious challenges of the coming decades: producing food sustainably, protecting the environment and our forests, and making a tangible contribution to global wellbeing. Calabria, with its strong agricultural tradition, extensive forest resources and highly important traditional food specialities, must not only safeguard these assets but also promote them, ensuring their full integration with the agricultural sector and environmental sustainability. All of these themes are closely aligned with the subject areas covered by the degree courses offered by the Department of Agricultural Sciences. New graduates in Agricultural Sciences, Forestry and Environmental Sciences, Food and Gastronomic Sciences and Technologies, and Biotechnology, all with a strong focus on sustainability, will be empowered by the knowledge they have acquired to drive socio-economic growth not only in Calabria, but across the wider Mediterranean region. Enrolling on a degree course at the Department of Agricultural Sciences equips students with a solid foundation for their future careers as leaders, capable of responding to the profound changes that will increasingly shape the entire agricultural, food, forestry and environmental production chain. As a result, from the 2026/2027 academ-



ic year, all degree programmes - which have already been updated and brought up to date in terms of content - will be ready to train the technical experts of the future. Armed with a wealth of technical and scientific expertise across a broad spectrum of disciplines, and a deep understanding of digital technologies applied to production processes, graduates from the Department of Agricultural Sciences will be em-



powered to manage the sector. As such, their mission will be to safeguard agricultural and forestry ecosystems, ensuring the sustainability of food supply chains, addressing food security - encompassing universal access to food, as well as food hygiene, nutritional value and traceability - and restoring and protecting biodiversity and ecosystem services.

These management activities must consider the environment as playing a central role, with agri-food supply chains becoming drivers of socio-economic progress, including from a regional perspective and with a transdisciplinary approach. The range of programmes offered by the Department of Agricultural Sciences - including bachelor's degree courses (Level I) in "Agricultural Sciences and Technologies", "Food and Gastronomic Sciences and Technologies", "Forestry and Environmental Sciences" and "Biotechnology for Sustainability" - draws on the knowledge developed by the Department's research groups for educational purposes. The master's degree courses (Level II) in "Mediterranean Agricultural Production Sciences", "Sustainable Management of Forest and Mountain Areas" and "Food Product Quality and Safety Sciences" build on the academic foundation laid in the Level I programmes. The Department of Agricultural Sciences also offers further academic training in the form of PhD programmes and master's degree courses offered on an annual basis. To further enhance learning, academic achievement and, above all, graduate employability, the Department of Agricultural Sciences provides students with access to teaching laboratories, library and information services, tutoring, pre- and post-graduation work placements, and careers services, through its well-established partnerships with the business community. The renewed course portfolio, together with the enhancement of services provided by both the University and the Department of Agricultural Sciences, aims to contribute to the creation and development of a training pathway - one that is designed to have a powerful impact on regional needs while simultaneously engaging on a global scale.

Marco Poiana

Head of the Department of Agricultural Sciences

Teaching

For information on teaching, learning and their academic progress, students can contact the Department of Agricultural Sciences' Teaching Office.

This service provides information on:

- Study plans
- Credit transfer and degree course fast-tracking
- Academic progress monitoring
- Uploading exam sessions to the online platform
- Scheduling exam sessions for graduating students (during the extraordinary session period)

The Teaching Office operates via the ESSE3 platform and by email. For information and advance requests regarding validations and exam sessions, students can send an email to the Teaching Office, quoting their student number and subject, to the address

✉ didattica.agraria@unirc.it

Department Library

The Agricultural Sciences Library is part of the University Library System, and serves students, lecturers and researchers interested in the fields of agriculture, the environment and food. The library collection is continuously updated and can be consulted via the University's OPAC, which is integrated with the National Library System (SBN) catalogue. It comprises teaching materials, monographs, scientific journals, Italian and international periodicals, and a collection of bachelor's degree dissertations from the Department dating back to 1986, as well as master's degree dissertations and PhD theses from 2011 onwards. It also includes a large collection of international electronic resources of significant scientific interest, accessible via the University network and, for institutional users, also remotely via the Library System portal.

The reading room is connected to Wi-Fi; there are desktop computers available for accessing digital library resources, as well as a reading station for the visually impaired. Institutional users can take advantage of the loan service, including interlibrary loans.

In collaboration with the University Library System and academic staff from the Department, library staff organise annual thematic seminar series and workshops on bibliographic research methods, tailored to the subject areas covered by the degree courses in Agricultural Sciences.

In conjunction with the Department's Press Office, the Library maintains a presence on the

Department of Agricultural Sciences' social media channels to promote events and provide up-to-date information. Via the dedicated website, users can access the services offered and submit acquisition recommendations and requests for articles from scientific journals.

🌐 www.agraria.unirc.it/Biblioteca



Erasmus

Departmental Coordinator: **LI DESTRI NICOSIA MARIA GIULIA**

✉ giulia.lidestri@unirc.it

The new Erasmus+ programme strengthens the University's international partnerships and global engagement by establishing Inter-institutional Agreements with universities and research institutions. Erasmus+ is aimed at students, academic staff, and technical and administrative staff.



The opportunities available to Erasmus+ students are divided into two categories: "Study" and "Traineeship".

Under the "Study" category, the Erasmus+ programme involves a period of study, including time spent preparing a dissertation, at another university within the European Union (up to 12 months for each cycle). Upon completion, the home university recognises the study undertaken abroad as part of their degree.

Under the "Traineeship" category, the programme involves undertaking a

work placement at an institution, organisation or company based in another EU country (for a minimum of 5 days and a maximum of 12 months per course of study). The traineeship period can also be completed in the 12 months following the award of the qualification, provided that the student submits the application to participate in the programme before completing their studies.

🌐 www.unirc.it/internazionale/erasmus

Departmental Admissions and Outreach Service

Departmental Coordinator: **PROF. SICARI VINCENZO**

✉ vincenzo.sicari@unirc.it | ✉ orienta.agraria@unirc.it

Choosing a university course is a key milestone in every student's life – a decision that can shape their professional and personal future. At the Department of Agricultural Sciences, we know how important it is to make the right choice. As such, we provide our prospective students with a wide range of opportunities to guide them through the application process.

We offer a welcoming and stimulating environment, full of opportunities for hands-on learning, where theoretical training is combined with practical experience. Through our range of programmes, which includes degree courses in Agricultural Sciences and Technologies, Food and Gastronomic Sciences and Technologies, Forestry and Environmental Sciences, and Biotechnology for Sustainability, students acquire the skills they need to successfully enter the world of work or pursue further studies.

Why choose our Department?

Our Department stands out for its unique blend of theoretical training, applied research and innovation. Our courses are designed to meet the needs of a constantly evolving market, preparing graduates to take on key roles in sectors linked to sustainability and innovation.

- High-quality teaching
- State-of-the-art laboratories and facilities
- Work placement opportunities and partnerships with the business community
- International mobility

Our admissions and outreach services

To help you choose your course of study and support you on your academic journey, our admissions and outreach team provides a range of services:

- Open Days and information sessions
- Personalised student admissions help desk
- Tutoring for academic success

Start your journey with us

Our mission is to provide you with a well-rounded education that prepares you to meet the challenges of an ever-changing world. With a solid academic foundation, ongoing support and plenty of opportunities for growth, our Department is the right place for you if you want to build a successful career.

How can I use the Admissions and Outreach Service?

Individuals interested in the service can:

- visit the help desk during office hours;
- contact the office by email or telephone;
- make an appointment for personalised advice.

During the meeting, individuals will be able to:

- obtain information on the degree courses offered at the Department;
- obtain information on services and on the various aspects of university life in general;
- receive free guides and brochures about the Department;
- access support for online enrolment on degree courses.

Contact us to find out more or to receive personalised information about our range of courses. We look forward to embarking on this exciting academic journey with you!



Tutoring

The Department provides an invaluable service, aimed at guiding and supporting students throughout their academic journey. We empower them to be active participants in the learning process, removing obstacles and ensuring that their time spent attending courses is productive. This is achieved through initiatives tailored to each individual's needs, aptitudes and requirements. Each tutor is typically assigned a maximum of 15 students, including both those who are enrolled and/or registered, and those who may be beyond the standard time-frame for completion.

The aim is to encourage students to thrive in university life, both by providing them with guidance and support in developing an effective and consistent study routine, and by helping them overcome any difficulties and enhance their academic skills.

In addition, with a view to enhancing student support, the Department allocates financial resources each year to offer recent graduates the opportunity to participate in tutoring activities across various disciplines. Furthermore, students who have completed their second year have the opportunity to gain valuable work experience within certain areas of the Department (such as the Teaching Office, the Admissions and Outreach Office, the Library and the Communications Office), which rely on the support of non-permanent staff employed on fixed-term contracts.

Work Placements and Internships

External internships and placements

Work placements are a valuable learning experience that enables students to gain first-hand experience of the world of work, thereby helping them to make informed career choices based on a practical understanding of the workplace. The placement is undertaken during the course of study and aims to supplement the theoretical knowledge acquired in university courses with practical skills gained through professional experience.

Students can undertake their placements with a range of host organisations, both public and private, with which the Department of Agricultural Sciences has established special agreements. These include:

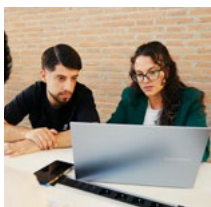
- Public and private agricultural and forestry companies;
- Commercial companies;
- Public and private research institutes;
- Professional firms;
- Trade associations;
- National and regional parks;
- Public or private organisations operating in various sectors of the agricultural economy, including the design, conservation, processing, analysis and marketing of agri-food and forestry products; the provision



of technical equipment and services for agriculture and forestry; the planning and management of agroforestry resources; soil conservation; and the protection of the landscape and the environment.

International universities, research organisations or associations can also serve as placement locations, provided they undertake activities aligned with the subject areas covered by the Department of Agricultural Sciences.

During the placement, the student is supported by a member of staff from the Department (university tutor) and a representative from the host organisation (company tutor). In particular, for students on the degree course in Forestry and Environmental Sciences, the Department organises a practical, applied residential placement (“forest training”) every year.



Training and orientation placements

For all degree courses, training and orientation placements are also offered at partner organisations, as well as study trips aimed at fostering a continuous exchange of experiences between the University and the world of work.

All these activities (external internships and placements, and training and orientation placements) are recognised as course

credits and form an integral part of the university course.

Completion of a placement is mandatory for admission to the final degree examination.

Students may also apply to the **Placement Committee** for the recognition of credits for any prior work experience, provided that such experience is relevant to their course of study.

Initial knowledge assessment test

To enrol in the first year of a Level I bachelor's degree course in the Department of Agricultural Sciences, students must register for and sit a nationally recognised Initial Knowledge Assessment Test. Failure to pass this test does not, however, prevent students from enrolling on the courses.

The Department of Agricultural Science and the Università degli Studi Mediterranea di Reggio Calabria have joined the **TOLC@**

CASA project, developed by the Inter-university Consortium for Integrated Access Systems (CISIA), which, specifically for the agricultural sector, is known as **TOLC-AV**. This online format allows students to take the test from the comfort of their own homes, in a virtual classroom. CISIA continuously updates the full calendar of dates on which the TOLC@CASA (TOLC-AV) can be sat in 2026–27, which you can find here.

For more information on how to enrol on courses and methods of sitting the test, please visit the Department of Agricultural Science's website at www.agraria.unirc.it/test_ingresso.php of the Department of Agriculture, registration and completion of a nationally valid Initial Preparation Evaluation Test is mandatory, which however does not exclude the possibility of enrolling in the courses.



PhD programmes in AGRICULTURAL, FOOD AND FORESTRY SCIENCES

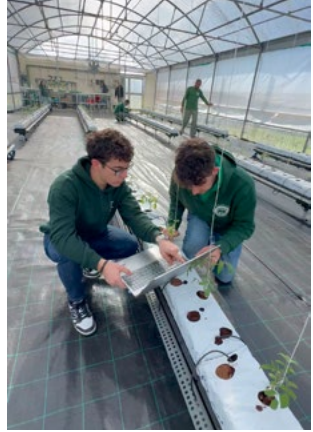
Coordinator: **Leonardo Schena**

The PhD in Agricultural, Food and Forestry Sciences (SAAF) trains high-calibre researchers and professionals capable of tackling the scientific, technological and environmental challenges currently facing the agri-food and forestry sectors. Based at the Department of Agricultural Sciences at the Università Mediterranea di Reggio Calabria, the programme is situated within a unique geographical context, in the heart of the Mediterranean – a natural laboratory for studying biodiversity, traditional production chains and the effects of climate change on agroforestry ecosystems.

The skills acquired enable PhD graduates to take up positions not only in typical roles as researchers in the public or private sector, but also in technical and managerial roles within primary sector and environmental management organisations. The agri-food sector is a key driving force for Italy's economy. This sector is growing steadily and stands out for its high standards of quality and sustainability, as well as its strong regional identity – values that are particularly deeply rooted in Mediterranean produce and in Calabria's specialities, ranging from olive and citrus cultivation to wine production and livestock farming.

Supporting this production model requires scientists who are capable of addressing the sector's challenges and, at the same time, devising and leading research and innovation projects. Similarly, in the fields of forestry and land management, there is a growing global focus on sustainable forest management, with research aimed at safeguarding the multiple functions of forests and the ecosystem services they provide – issues of particular importance in a region such as Calabria, which is among the richest in Italy in terms of forest cover and biodiversity. PhD graduates find opportunities in all fields requiring expertise in the production, marketing and technological innovation of food production and distribution processes, as well as in the management and sustainable use of forest and wildlife resources. Career opportunities range from agri-food companies involved in production, processing and import-export to research bodies, including parks, special agencies, hospitals, conservation consortia, certification bodies, non-governmental organisations focused on sustainable development, and research spin-offs.

The programme draws on a strong network of national and international partnerships, state-of-the-art laboratories and ongoing engagement with the local community, offering PhD students an environment where cutting-edge research meets the practical challenges of agriculture, food and forestry management in the Mediterranean.



Scholarships

Our scholarships provide financial support to help students complete their studies and are awarded for first-time achievement of each level of study; they may not be combined with

other bursaries awarded by other organisations. Being eligible for a scholarship also entitles students to full exemption from university fees. To qualify for a scholarship, students must meet both financial and academic merit requirements. The financial criteria stipulate that the applicant's household ISEE and ISPE scores must fall below certain thresholds specified in the call for applications. The merit criteria stipulate that the student must have acquired a certain number of university credits (CFU) by 10 August of the year of enrolment. The number of credits required varies according to the year of the course. The scholarships vary in amount (as specified in the call for applications) and their value is adjusted depending on whether the student is based on campus, commutes or lives off-campus. It is important for students to have their household's ISEE and ISPE scores. To obtain these, students can simply contact a CAAF (Authorised Tax Assistance Centre) and request ISEE Certificate for Subsidised Benefits for the Right to University Study.

ACCOMMODATION GRANT Students living away from home who are eligible but not in receipt of a scholarship may be eligible for a rent grant.

For more information: ✉ dirittoallostudio@unirc.it | 🌐 <https://dsu.unirc.it/>

🌐 <https://www.unirc.it/studiare/diritto-allo-studio>

🌐 <https://unirc.esse3.cineca.it/Root.do>

Gym

The "MediClub" gym is located on the Mediterranean University Campus. It boasts an extensive range of Technogym and Visa machines and equipment, as well as spacious changing rooms with facilities, all set within a green space sheltered from the noise and distractions of city traffic. This is a place for both training and socialising: instructors provide newly enrolled students with a personalised training programme, developed following a consultation designed to identify their goals and aspirations.

The state-of-the-art bodybuilding and fitness equipment enables us to offer classes in wellness, fitness, isometric training, strength training with circuit training, L.A.B. (Legs, Abs and Buttocks), mixed body and total body workouts. Next to the gym is a five-a-side football pitch, which can be booked online.



University Medical Centre

On the ground floor of Tower 2 of the University Campus, next to the Registry Office, you'll find a medical clinic offering general practice, dietetics, psychology and gynaecology services, as well as information and advice on preventive healthcare. These services are designed to safeguard the right to healthcare for university staff and the entire student community.

Students and staff (academic staff, administrative staff, technicians, etc.) can have clinical tests carried out at a participating laboratory, benefiting from a 20% discount on the prices set out in the Regional Price List.

Only students are eligible for the free provision of essential medicines prescribed by health-care professionals at the University Health Centre.

University Counselling Service

Located on the **ground floor of Tower 2 of the University Campus**, the University Psychological Counselling Service (SCPA) was set up to meet the needs of UNIRC students. It is designed to offer students a space where they can share their experiences and seek advice from qualified professionals on integrating into university life and developing strategies for dealing with any difficulties they may face. This is a free service designed to support students as they navigate the challenges of personal and academic growth, as well as the transitional and adjustment issues that are extremely common during university life.

MORNING Monday to Friday 10.30/12.30 | **AFTERNOON** Tuesday and Thursday 15.30/17.30

info and bookings: ☎ 0965.1691212 | ✉ counseling@unirc.it

Accommodation

Via Manfroce University Residence

The Via Manfroce University Residence is a 6-storey building comprising 49 studio flats, which can accommodate approximately 100 students in double and quadruple rooms. Each studio apartment consists of a bedroom, study, bathroom and kitchen. It is located about 100 metres from the University campus and can also be reached on foot. A shuttle service is also available, making it easily accessible from anywhere in the city of Reggio Calabria. The library is the residence's star attraction – a vibrant hub where students can come together for recreational activities, seminars and cultural events. An audio/video system has recently been installed to enable students to make full use of the library's resources even outside of scheduled events. The entire building is served by the UNIRC Wi-Fi service.



Via Roma University Residence

Located in the central area of the city, this residence has 50 beds in single and double rooms, as well as four fully accessible single rooms. The rooms are spread over four floors, each with a study room, a dining-relaxation area and a shared kitchen. All rooms have access to the UNIRC Wi-Fi service. The residence has a library-meeting room and a series of communal facilities: a multi-purpose hall equipped for video projection and the organisation of conferences, as well as a fitness area.

Three-year Degree Courses

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Agricultural Sciences and Technologies (STA)

Coordinator: PROF. ANTONIO GELSOMINO

✉ agelsomino@unirc.it | ✉ sta.agraria@unirc.it

Specific Educational Objectives of the Course

The degree course in Agricultural Sciences and Technologies prepares students for the sustainable management of agricultural systems, providing a broad and comprehensive understanding of the characteristics of agro-zootechnical supply chains. It equips them for a career as a Junior Agronomist capable of applying their management skills, balancing production goals with the protection of environmental resources.

Graduates in Agricultural Sciences and Technologies can apply their wide-ranging and diverse skills in sectors related to agricultural and livestock production, working within trade organisations, consortia of producers, cooperative organisations, companies marketing plant and animal products, and in technical assistance and consultancy services.

Graduates can also apply their professional skills to the appraisal and valuation of land, facilities and technical equipment, to cadastral, cartographic and topographical work, and to areas of public administration related to agricultural systems.

Last but not least, a degree in Agricultural Sciences and Technologies opens doors to research roles at public or private institutions, advanced training and specialisation courses, and teaching positions as technical and practical instructors (ITP) at technical and vocational colleges.



PROFESSIONAL ROLES (employment opportunities)

AGRICULTURAL SPECIALISTS

- Self-employed agricultural business management;
- Employment in agricultural and livestock businesses, trade organisations, consortia of producers, or cooperatives;
- Employment in public bodies;
- Marketing of plant and animal products, and for agricultural businesses;
- Collaboration in the management and design of agricultural, agri-food and livestock production systems;
- Technical assistance and consultancy services;
- Appraisal and valuation of land, technical equipment, facilities and agricultural products;
- Cadastral, cartographic and topographical work;
- Freelance work, after passing the qualification exam;
- Research roles at public or private institutions;
- Access to teaching positions as technical and practical instructors (ITP) at technical and vocational colleges.

LIVESTOCK SPECIALISTS

- Employment in livestock businesses;
- Marketing of animal products;
- Technical assistance and consultancy services for livestock businesses.

TECNICO DI LABORATORIO BIOCHEMICAL LABORATORY SPECIALISTS

- Employment in laboratories analysing agri-food and livestock products;
- Employment in wine-growing and distilling companies;
- Employment in companies specialising in quality certification and analysis of plant, animal and agri-environmental production.

Exams	Subjects	YEAR 1	CFU
1	Elements of Mathematics and Physics		9
	<i>Elements of Mathematics</i>		5
	<i>Elements of Physics</i>		4
1	Plant Biology		9
1	Chemistry		9
1	Genetics		6
id	Statistical Methods and Data Processing Tools		6
id	English		6
1	Agricultural Economics		6
1	Agricultural Policy		6
6	TOTAL YEAR 1		57
Exams	Subjects	YEAR 2	CFU
1	Agricultural Entomology		6
1	Plant Biochemistry and Physiology		6
1	Soil Chemistry		6
1	Fundamentals of General Microbiology and Agricultural Industries		9
	<i>Fundamentals of General Microbiology</i>		5
	<i>Fundamentals of Agricultural Industries</i>		4
1	Agronomy		6
1	Plant Pathology		6
1	General Arboriculture		6
1	General Animal Husbandry and Principles of Animal Genetic Improvement		6
8	TOTAL YEAR 2		51
Exams	Subjects	YEAR 3	CFU
1	Rural Buildings and Topography		6
id	CAD Laboratory		3
1	Agricultural Hydraulics, Agricultural Mechanics and Mechanisation		12
	<i>Agricultural Hydraulics</i>		6
	<i>Agricultural Mechanics and Mechanisation</i>		6
1	Animal Nutrition and Feeding, Special Animal Husbandry		12
	<i>Animal Nutrition and Feeding</i>		6
	<i>Special Animal Husbandry</i>		6
1	Herbaceous and Arboreal Crops		12
	<i>Herbaceous Crops</i>		6
	<i>Special Arboreal</i>		6
1	Rural Valuation		6
5	TOTAL YEAR 3		51
1	Elective subjects		12
	Final examination		4
	Training and orientation placements		2
	External internship and placement		3
20	TOTAL DEGREE COURSE		180

Three-year Degree Courses

Food and Gastronomic Sciences and Technologies (STAG)

Coordinator: PROF. ANTONIO MINCIONE

✉ amincione@unirc.it | ✉ stag.agraria@unirc.it

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Specific Educational Objectives of the Course

The degree course aims to equip students with the knowledge and professional skills to gain a comprehensive understanding of the entire food and beverage production process and the general issues encountered, from production to consumption, including the preparation and serving of meals.

Graduates will have the skills to manage and oversee technical aspects of food production, storage and distribution, as well as safety and quality issues relating to the preparation, storage and distribution of food for mass catering, and the management of restaurant and service businesses.

The aim of graduates' professional roles, including when supporting other professionals, will be to continuously improve the quality of food products, ensuring the sustainability and eco-friendliness of industrial activities, and incorporating technological innovations in production processes.



PROFESSIONAL ROLES (employment opportunities)

FOOD PRODUCT SPECIALISTS

- Employment in companies involved in the primary, secondary and tertiary processing of agricultural and fishery products into food;
- Employment in companies operating in the food service, catering and mass catering sectors;
- Employment in laboratories analysing food products.

BIOCHEMICAL LABORATORY SPECIALISTS

- Employment in companies involved in the primary, secondary and tertiary processing of

agricultural and fishery products into food;

- Employment in companies producing confectionery, ready meals and pre-prepared foods, perishable packaged foods, and specialist and dietary food products;
- Employment in wineries and distilleries;
- Employment in companies producing soft drinks, mineral waters and other bottled waters;
- Employment in food and beverage retail companies (hypermarkets and supermarkets);
- Employment in companies operating in the food service, catering and mass catering sectors;
- Employment in laboratories analysing food products.

GASTRONOMY AND CATERING SPECIALISTS

- Employment in food service and catering businesses;
- Employment in public supervisory bodies and offices, and public institutions responsible for planning and monitoring production activities;
- Employment in agri-food companies, small and large retailers, agritourism and the communications sector.

Exams	Subjects YEAR 1	CFU
1	Elements of Mathematics and Physics	9
	<i>Elements of Mathematics</i>	5
	<i>Elements of Physics</i>	4
1	Plant Biology	9
1	Chemistry	9
1	Genetics and Agri-food Traceability	6
id	Statistical Methods and Data Processing Tools	6
id	English	6
1	Unit Operations in Food Technology	6
1	Fundamentals of Agri-food Economics and Law	6
	<i>Fundamentals of Agri-food Economics</i>	3
	<i>Agri-food Law</i>	3
6	TOTAL YEAR 1	57

Exams	Subjects YEAR 2	CFU
1	Gastronomy and Catering Sciences and Technologies	9
	<i>Gastronomy</i>	6
	<i>Catering Sciences and Technologies</i>	3
1	Protection of Food and Manufactured Goods from Pests	6
1	Post-harvest Diseases in Plant Products	6
1	Plant Biochemistry and Physiology	6
1	Quality of Plant and Animal Products	12
	<i>Industrial Herbaceous Crops</i>	6
	<i>Principles of Arboriculture</i>	3
	<i>Animal Products</i>	3
1	Fundamentals of Agricultural Industries and Food Quality Management	6
1	Chemical Analysis and Inspection of Food Products	6
7	TOTAL YEAR 2	51



Exams	Subjects YEAR 3	CFU
1	Agri-food Systems Engineering	9
	<i>Water Treatment Techniques in Agribusiness</i>	3
	<i>Facilities and Equipment for Catering and the Food Industry</i>	6
1	Food Microbiology	12
	<i>General Microbiology</i>	6
	<i>Fermentation Microbiology</i>	6
1	Food Chemistry	6
1	Technology for the Processing and Distribution of Agri-food Products	6
1	Taste Chemistry and Human Nutrition	6
	<i>Taste Chemistry of Mediterranean Foods</i>	3
	<i>Principles of Human Nutrition</i>	3
1	Agri-food Economics, Marketing and Policy	9
	<i>Agri-food Economics and Marketing</i>	6
	<i>Agri-food Policy</i>	3
6	TOTAL YEAR 3	48
1	Elective subjects	12
	Final examination	4
	Training and orientation placements	4
	External internship and placement	4
20	TOTAL DEGREE COURSE	180

Three-year Degree Courses

Forestry and Environmental Sciences (SFA)

Coordinator: PROF. ANDREA ROSARIO PROTO

✉ andrea.proto@unirc.it | ✉ sfa.agraria@unirc.it



Specific Educational Objectives of the Course

This degree course aims to equip students with the knowledge and professional skills to monitor and analyse the environment and forest ecosystems. Graduates will possess the skills necessary to design specific components and contribute to the design of complex forestry systems, as well as manage soil protection projects through agro-environmental and forestry engineering techniques.

Moreover, they will be capable of appraising and valuing land, plant, technical equipment and products in the forestry sector and related processing industries. The degree course enables students to develop a multidisciplinary and synergistic approach to the challenges of managing, protecting and enhancing these environmental resources, particularly in hilly and mountainous areas, with a growing focus on urban green spaces.

The degree course also equips students with knowledge about new methodologies and technologies for the analysis and monitoring of forest and environmental systems, as well as tree stands in general.

The overall aim of graduates' professional roles, including when supporting and complementing other professionals, will be to apply the skills acquired to support the sectors of forestry production and the marketing of related products, agritourism and rural tourism, the protection of the forest environment, and land and forest landscape planning.

Furthermore, in support of the new European policy on environmental sustainability, Junior Forestry Specialists will be able to provide valuable and comprehensive advice on the planning and management of green infrastructure, urban and peri-urban green spaces, including urban afforestation.



PROFESSIONAL ROLES (employment opportunities)

FORESTRY SPECIALISTS

- Employment in private companies and public sector organisations for the management, monitoring and enhancement of forest resources.

ENVIRONMENTAL CONTROL SPECIALISTS

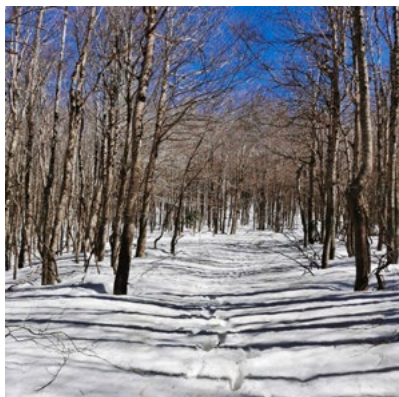
- Employment in private companies and public sector organisations providing technical and legal advice to businesses, companies and organisations, ensuring verification of and compliance with all regulations.

SPECIALISTS IN THE HARVESTING AND INITIAL PROCESSING OF FORESTRY PRODUCTS AND PRODUCTS FROM AGRISILVO-PASTORAL SYSTEMS

- Employment in private companies within production processes.

SPECIALISTS IN EDUCATION AND TRAINING IN THE ENVIRONMENTAL AND TECHNICAL-VOCATIONAL SECTOR

- Employment in private companies and public sector organisations in the field of training, promotion and education on environmental and forestry issues.



Exams	Subjects YEAR 1	CFU
1	Elements of Mathematics and Physics	9
	<i>Elements of Mathematics</i>	5
	<i>Elements of Physics</i>	4
1	Plant Biology	9
1	Chemistry	9
1	Genetics	6
id	Statistical Methods and Data Processing Tools	6
id	English	6
1	Forest Botany	6
5	TOTAL YEAR 1	51
Exams	Subjects YEAR 2	CFU
1	Forestry Buildings and Landscape	6
1	Plant Biochemistry and Physiology	6
1	Wildlife Husbandry and Management Systems in Mountain Areas	9
	<i>Wildlife Management</i>	3
	<i>Mountain Farming Systems</i>	6
1	Forest Ecology and General Forestry	12
	<i>Forest Ecology</i>	6
	<i>General Forestry</i>	6
1	Mountain Cultivation Systems	6
1	Land Survey and Representation	6
1	Elements of Forest Zoology	6
1	Forest Pathology	6
1	Forest Hydraulics and Hydrology	6
9	TOTAL YEAR 2	63
Exams	Subjects YEAR 3	CFU
1	Dendrometry	6
1	Forest Economics, Policy and Valuation	12
	<i>Forest Economics and Policy</i>	6
	<i>Forest Valuation</i>	6
1	Forest Water Management Systems	9
	<i>Forest Stream Channel Water Management Systems</i>	6
	<i>Forest Hillslope Water Management Systems</i>	3
1	Technologies and Systems for the Forestry and Timber Industry and the Management of Green Spaces	9
	<i>Mechanics and Mechanisation for Forests and Green Spaces</i>	6
	<i>Wood Harvesting and Processing</i>	3
1	Soil Chemistry and Forest Biomass	9
	<i>Sustainable Use of Forest Biomass</i>	3
	<i>Forest Soil Chemistry</i>	6
5	TOTAL YEAR 3	45
1	Elective subjects	12
	Final examination	4
	Training and orientation placements	3
	External internship and placement	2
20	TOTAL DEGREE COURSE	180

Three-year Degree Courses

(in the process of initial accreditation)

i



Biotechnology for Sustainability (BS)

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Specific Educational Objectives of the Course

The degree course in Biotechnology for Sustainability (BS) will provide broad-based training across various fields of biology and applied biology, complemented by a solid foundation in mathematics, physics, chemistry, genetics, computer science and bioinformatics. This approach aims to ensure that graduates in Biotechnology maintain a broad cultural outlook, which is essential for successful professional integration within the ever-changing landscape of technology and biotechnology. The programme aims to equip graduates with a solid foundation of knowledge and skills



in the core scientific disciplines of Biology and Biotechnology. The course has also been expanded to include the module "Fundamentals of Artificial Intelligence for Biotechnology", due to its relevance to the underlying methodological basis of AI, which is founded on neural networks. Graduates in Biotechnology for Sustainability will be able to apply their wide-ranging and diverse skills across the various sectors of biotechnology, having developed:

- a solid foundation in understanding biological systems, with a focus on both the molecular and cellular levels;
- the cultural and methodological foundations for understanding biotechnological innovations, with particular reference to all omics technologies, bioinformatics, systems biology and genome editing as applied to the study and use of living organisms;
- knowledge of regulations, responsibilities and bioethics, as well as the economics and business management of biotechnology applications.

PROFESSIONAL ROLES (ISTAT code)

BIOTECHNOLOGIST (2.3.1.1.4.)

BIOCHEMICAL LABORATORY TECHNICIAN (3.2.2.3.1)

CHEMICAL TECHNICIAN (3.1.1.2.0)

Graduates in Biotechnology for Sustainability will be able to pursue technical and operational roles, utilising biological systems and genetic engineering techniques for applica-



tions across a range of industrial sectors, including the agri-food, environmental, chemical, medical, pharmaceutical and veterinary sectors, where they can perform the following tasks:

- integrated application of biological technologies using living organisms and/or parts thereof to create innovative products across various production sectors;
- biological and analytical control and validation of the aforementioned processes and products;
- operation and maintenance of biotechnological facilities;
- certification of products that have undergone genetic modification, ensuring their outcome, purpose, quality and biosafety and assessing their socio-environmental impact;
- research in biotechnology across various industrial sectors, with the aim of developing goods or services;
- the use of IT and bioinformatics tools to analyse data obtained from research and analyses that form part of a biotechnologist's work;
- the marketing of products derived from research or production activities that involve biotechnological processes or methodologies.

Exams	Subjects YEAR 1	CFU
1	General and Plant Biology	9
1	Elements of Mathematics and Physics (INTEGRATED COURSE)	12
	<i>Elements of Mathematics</i>	6
	<i>Elements of Physics</i>	6
1	Zoologia	6
1	Chemistry (INTEGRATED COURSE)	12
	<i>General and Inorganic Chemistry</i>	6
	<i>Organic Chemistry</i>	6
1	Genetics	9
1	Economics and Policy for Biotechnology	6
1	English	3
6	TOTAL YEAR 1	57

Exams	Subjects YEAR 2	CFU
1	General Biochemistry and Physiology (INTEGRATED COURSE)	12
	<i>Biochemistry</i>	6
	<i>General and Plant Physiology</i>	6
1	Molecular Biology and Principles of Bioinformatics	9
1	General Microbiology	6
1	Biotechnology and Applied Genomics	6
1	Big Data Management in Biotechnology	6
1	Microbiota and Agri-food sustainability	6
1	Environmental Bioremediation	6
1	Crop Systems Biotechnology	9
	Laboratory Work Placement	3
8	TOTAL YEAR 2	63

Exams	Subjects YEAR 3	CFU
1	Biotechnological Processes and Bioactive Molecules (INTEGRATED COURSE)	12
	<i>Exploitation of Bioactive Molecules</i>	6
	<i>Biotechnological Processes</i>	6
1	Microbial Biotechnology	6
1	Facilities and Materials for Biotechnology (INTEGRATED COURSE)	12
	<i>Facilities for the Biotechnological and Environmental Industry</i>	6
	<i>Materials for Biotechnology</i>	6
1	Elements of Artificial Intelligence for Biotechnology	6
4	TOTAL YEAR 3	36
2	Elective subjects	12
	Final examination	4
	Training and orientation placements	5
	External internship and placement	3
20	TOTAL DEGREE COURSE	180

Master's Degree Courses (two-year)

Mediterranean Agricultural Production Sciences (SPAM)

Coordinator: PROF. GREGORIO A. M. GULLO

✉ ggullo@unirc.it | ✉ spamed.agraria@unirc.it



Educational Objectives

Objectives of the Course

The course aims to impart knowledge with a view to training highly qualified professionals capable of tackling the challenges of innovation and sustainability in agricultural and rural sectors within a core region of the Mediterranean.

The course aims to meet the needs of the market and consumers, ensuring the quality and nutritional value of products while fully respecting agricultural ecosystems.

The aim of the degree course in Mediterranean Agricultural Production Sciences is to prepare graduates to undertake planning, management, research, training, monitoring and coordination roles in agricultural supply chains.

The course equips graduates with advanced technical and scientific knowledge, enabling them to work within the fields of agricultural sciences and technologies.



PROFESSIONAL ROLES (employment opportunities)

PROFESSIONALS IN MEDITERRANEAN AGRICULTURAL PRODUCTION SCIENCES

- Employment in agricultural businesses (small, medium and large-scale), cooperatives or producer organisations (POs) specialising in traditional, integrated, organic or innovative production methods for plant crops (herbaceous crops, nursery plants, fruit trees, vines, olive trees, citrus trees) or livestock;
- Employment in public or private bodies;
- Employment in trade associations;
- Employment in organisations responsible for managing natural heritage and public green spaces (parks and nature reserves);



- Employment in bodies responsible for monitoring the quality of agricultural products;
- Employment in companies producing materials, facilities and machinery for agriculture, for the processing and/or distribution of agricultural products;
- Employment in banking and insurance roles in the agricultural sector within financial institutions and/or insurance companies.

RESEARCHERS / GRADUATE SPECIALISTS

- Research roles within public or private bodies.

AGRONOMISTS

- Freelance work.



Exams	Subjects YEAR 1	CFU
1	Agroecology	6
1	Agronomic Management of Water Resources	6
1	Organisation and Management of Agricultural Businesses	6
1	Analysis and Spatial Planning of Rural Systems	6
1	Arboreal Crops in the Mediterranean Environment	12
	<i>Olive Growing and Viticulture</i>	6
	<i>Tropical and Subtropical Citrus and Fruit Growing</i>	6
1	Advanced Plant Pathology	12
	<i>Plant Pathological Mycology</i>	6
	<i>Plant Pathological Bacteriology and Virology</i>	6
id	GIS Laboratory	5
6	TOTAL YEAR 1	53

Exams	Subjects YEAR 2	CFU
1	Irrigation Systems and Precision Mechanisation	9
	<i>Irrigation Systems and Methods</i>	6
	<i>Smart Mechanisation for Precision Agriculture</i>	3
1	Biotechnology Applied to Agri-food Production	12
	<i>Genetic Improvement of Plants</i>	6
	<i>Genetic Improvement of Animals in Livestock Production</i>	6
1	Soil Fertility and Fertilisers	6
1	Horticulture	6
1	Biological and Integrated Pest Control of Agricultural Crops	6
5	TOTAL YEAR 2	39
1	Elective subjects	9
	Final examination	12
	Training and orientation placements	3
	External internship and placement	4
12	TOTAL DEGREE COURSE	120

Master's Degree Courses (two-year)

Food Product Quality and Safety Sciences (SQSAL)

Coordinator: PROF.SSA AMALIA PISCOPO

✉ amalia.piscopo@unirc.it | ✉ sqsal.agraria@unirc.it



Specific Educational Objectives of the Course

This degree course aims to provide advanced knowledge in the field of technical management of agri-food systems and supply chains, building on the solid theoretical and scientific foundation acquired in the three-year L-26 degree.

The course also trains high-calibre professionals capable of drawing on a broad spectrum of knowledge to interpret, describe and solve, in an innovative way, problems related to the quality and safety of products deriving from agri-food supply chains. As part of the master's degree course, students have the opportunity to gain specialist knowledge in the field of food science and technology.



PROFESSIONAL ROLES (employment opportunities)

FOOD TECHNOLOGISTS WITH COORDINATION AND MANAGEMENT ROLES IN FOOD COMPANIES

- Employment in companies that process plant and animal products into food, and in agritourism;
- Employment in companies producing confectionery, ready meals and pre-prepared foods, perishable packaged foods, and specialist and dietary food products;
- Employment in wineries and distilleries;
- Employment in companies producing soft drinks, mineral waters and other bottled waters;
- Employment in food and beverage retail companies (hypermarkets and supermarkets);
- Employment in companies operating in the food service, catering and mass catering sectors.



FOOD TECHNOLOGISTS PROVIDING CONSULTANCY SERVICES FOR FOOD COMPANIES

- Freelance work in the food technology sector;
- Work in collaboration with other professionals in the design and operation of food industries;
- Employment in consulting firms.

FOOD TECHNOLOGISTS AS RESEARCHERS/OFFICIALS/MANAGERS IN PUBLIC AND PRIVATE BODIES

- Research roles and operational/managerial positions at universities and other public and private research bodies;
- Employment in public supervisory bodies and offices, and public institutions responsible for planning and monitoring production activities;
- Employment in analysis laboratories.

Exams	Subjects YEAR 1	CFU
1	Food Stabilisation and Preservation	6
1	Food Quality and Microbiological Safety	6
1	Organisation and Management of Food Businesses	9
	<i>Organisation, Management and Marketing of Food Consumption</i>	6
	<i>Food Legislation</i>	3
1	Innovative Process Management for Food and Beverage Production	12
	<i>Innovative Processes in the Food Industry</i>	9
	<i>Alcoholic Beverage Technologies and processes</i>	3
1	Packaging for Sustainability and the Reduction of Food Waste	6
1	Innovative Plant Engineering for Food Production Processes	6
id	Workshop on Technical English	6
6	TOTAL YEAR 1	42

Exams	Subjects YEAR 2	CFU
1	Food Safety and Health	9
	<i>Analytical Techniques for Food Control</i>	6
	<i>Applied Dietetics</i>	3
1	Post-Harvest Physiology	6
1	Physical and Sensory Evaluation of Food Products	6
1	Innovation in Primary Production for the Food Industry	9
	<i>High-quality Herbaceous Crops</i>	3
	<i>Industrial Fruit Growing</i>	3
	<i>High-quality Animal Products</i>	3
1	Mycotoxin-producing Fungi and Animal Parasitology in the Agri-food Supply Chain	6
	<i>Mycotoxin-producing Fungi in the Agri-food Supply Chain</i>	3
	<i>Animal Parasitology of Foodstuffs</i>	3
5	TOTAL YEAR 2	45
1	Elective subjects	12
	Final examination	12
	Training and orientation placements	4
	External internship and placement	5
12	TOTAL DEGREE COURSE	120



Master's Degree Courses (two-year)

Sustainable Management of Forest and Mountain Areas (GSTFM)

Coordinator: PROF. PASQUALE A. MARZILIANO

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Specific Educational Objectives of the Course

This course is a natural progression from the Level I degree in Forestry and Environmental Sciences.

The course aims to provide students with a solid foundation in the disciplines concerned with interpreting and understanding the interactions between different agroforestry land systems and their various components, with a view to training professionals capable of addressing current issues in forest management.

In this context, the course seeks to produce graduates who can tackle and manage complex issues relating to the planning, management and conservation of forest ecosystems and, more broadly, environmental management, with particular emphasis on the vital role that forests play in biodiversity conservation, environmental protection, landscape enhancement and the sustainable development of rural and forest areas.

The programme aims to equip students with the knowledge required for the monitoring, management and inventorying of forest ecosystems; the economic planning of agro-forestry areas; ecological and landscape planning; environmental protection; and the management and design of green spaces in both urban and rural settings.



PROFESSIONAL ROLES (employment opportunities)

FORESTRY PROFESSIONALS

- Freelance work in forest planning, drafting of forest management plans, design of timber arboriculture facilities, and forest valuation

FORESTRY PROFESSIONALS IN NATIONAL AND INTERNATIONAL PUBLIC BODIES, PARKS AND NATURE RESERVES

- Employment in public bodies responsible for the management, monitoring and enhancement of forest resources.

FORESTRY PROFESSIONALS IN INDUSTRIES PRODUCING AND PROCESSING WOOD PRODUCTS AND DERIVATIVES

- Employment in public and private companies producing and processing wood products and derivatives.

ENVIRONMENTAL QUALITY ASSESSMENT SPECIALISTS

- Providing advice to companies and organisations on the monitoring of habitats and species and the planning of initiatives aimed at preserving biodiversity, taking into account pollution and hydrogeological factors; Carrying out inspections at production facilities, taking samples for laboratory analysis and verifying compliance with all regulations.

LOWER AND UPPER SECONDARY SCHOOL TEACHERS

- The degree course is structured to enable graduates to acquire the training credits required to teach science and mathematics in lower secondary schools.

NATURE GUIDES

- Leading groups of people on tours to explore landscapes, nature reserves and ecosystems.

Exams	Subjects	YEAR 1	CFU
1	Analysis, Planning and Infrastructure for the Rural Landscape		12
	<i>GIS and Remote Sensing for the Analysis of Agroforestry Land</i>		6
	<i>Landscape Planning and Infrastructure for the Rural Landscape</i>		6
1	Protecting the Forest Ecosystem		6
	<i>Principles of Forest Entomology</i>		3
	<i>Sustainable Disease Management in Forest Ecosystems</i>		3
1	Soil Protection and Hydraulic and Hydrogeological Risk Mitigation		9
	<i>Soil Protection and Hydraulic Restructuring</i>		6
	<i>Planning of Drainage Basins</i>		3
1	Wood Technology and Tree Diagnostics		9
	<i>Wood Technology</i>		6
	<i>Diagnostics and Assessment of Tree Stability</i>		3
1	Ecological Planning of Forest Ecosystems		12
	<i>Forest Inventories</i>		3
	<i>Forest Management and Specialist Silviculture</i>		9
1	Analysis and Conservation of Forest Flora and Vegetation		6
	Workshop on Technical English		6
7	TOTAL YEAR 1		66
Exams	Subjects	YEAR 2	CFU
1	Environmental Valuation and Assessment of Ecosystem Services		6
1	Disturbances and Fires in Forest Ecosystems		6
1	Nursery Cultivation of Tree Systems		6
1	Biomonitoring of the Soil Ecosystem		6
1	Industry 4.0 Technologies for Forestry Applications		9
	<i>Technologies for Forestry Applications</i>		6
	<i>Plant and Facilities for Woodworking</i>		3
4	TOTAL YEAR 2		27
1	Elective subjects		9
	Final examination		12
	Training and orientation placements		2
	External internship and placement		4
12	TOTAL DEGREE COURSE		120

OUR LOCATION

DEPARTMENT OF AGRICULTURAL SCIENCES

Università Mediterranea
di Reggio Calabria
località Feo di Vito
89122 Reggio Calabria



INFO AGRARIA

▷ DEPARTMENTAL MANAGEMENT

Head of Department:

Marco Poiana

✉ direttore.agraria@unirc.it

✉ mpoiana@unirc.it

▷ TEACHING

Based at the Department of Agricultural Sciences in Feo di Vito
89122 Reggio Calabria

☎ +39 0965 169.45.20

✉ didattica.agraria@unirc.it

▷ STUDENT ADMINISTRATION OFFICE

(Service provided by the University)

The Student Administration Office handles all administrative requirements related to students' academic careers, from enrolment through to the award of their final qualification.

In particular, it handles the following tasks:

- providing information through front-office and online services;
- finalising enrolment;
- online management, external transfers, internal course changes, withdrawals, student record reconstruction, enrolment in individual modules;
- issuing certificates;
- processing requests for fee refunds;
- updating student records with Placement Assessment outcomes following approval by the Committee;

- handling requirements related to the graduation application process;
- issuing degree certificates for degrees awarded up until October 2010.

Manager:

Dott. Massimiliano Cannizzaro

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✉ segreteriastudenti.agraria@unirc.it

The Student Administration Office is located on the first floor of the Feo di Vito campus, within the Department of Agricultural Sciences.

Office hours:

Tuesday and Thursday 9,30 / 13,00.



The Department is served by ATAM bus route 27, which terminates at the Department and is free of charge for the academic community

▷ ADMISSIONS AND OUTREACH

Based at the Department of Agricultural Sciences in Feo di Vito
89122 Reggio Calabria.

Admissions and Outreach Officer:

Prof. Vincenzo Sicari

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✉ orienta.agraria@unirc.it

▷ LIBRARY

Based at the Department of Agricultural Sciences in Feo di Vito
89122 Reggio Calabria.

Library Officer:

Salvatore Di Fazio

Manager:

Dott.ssa Valeria Armagrande

☎ +39 0965 169.42.08

✉ biblio.agraria@unirc.it

Opening hours to the public:
Monday to Thursday 9,00 / 17,00
Friday 9,00 / 13,00.



www.agraria.unirc.it



The Department of Agricultural Sciences' social media channels are exclusively dedicated to providing information about life at AgrariaUniRC