





# **AGRICULTURE**

SUMMARY SHEETS OF THE DEGREE PROGRAMMES

**Department of Agriculture**

## BACHELOR'S DEGREE COURSES

### AGRICULTURAL SCIENCE AND TECHNOLOGY

*Class: L-25 R - Agricultural and forestry sciences and technologies*

Specific training objectives of the Course: The objective is to train the Junior Agronomist, a dynamic professional with a multidisciplinary and current knowledge with an immediate potential for inclusion in the work context, or prepared to face higher-level specialized courses. The training includes notions of chemistry, mathematics, physics, biology, statistics and computer science to continue with the disciplines of technical content in the fields of agricultural economics, genetics, agricultural chemistry, agronomy, crop protection, microbiology and agricultural industries, herbaceous and arboreal crops, livestock production, agricultural engineering and estimation. The Junior Agronomist can: work in agro-livestock farms, in trade organizations, consortia of producers, companies for the marketing of agro-livestock products, carry out cadastral, cartographic and topographic activities, provide technical assistance and consultancy, estimate land assets and technical means, collaborate in the design of agricultural production systems, work in agro-environmental analysis laboratories.

*The course prepares for the profession of (ISTAT codes):* ■ Agronomists - (3.2.2.1.1) ■ Livestock technicians - (3.2.2.2.0) ■ Biochemical laboratory technicians – (3.2.2.3.1)

### FORESTRY AND ENVIRONMENTAL SCIENCES

*Class: L-25 R - Agricultural and forestry sciences and technologies*

Specific educational objectives of the Course: In the educational path of the degree course in Forestry and Environmental Sciences, the different disciplines are integrated and developed around various thematic areas, including: forestry and forest ecology, economics and estimation, entomology and zoology, plant pathology, herbaceous crops, agricultural chemistry, hydraulic-forestry arrangements, forest mechanization and rural constructions. In addition, there is specific knowledge of wood technology and forestry uses. The course allows the student to develop a multidisciplinary approach to the management and enhancement of forest and environmental resources and with increasing attention to urban green areas. The degree course provides knowledge on the use of new technologies for monitoring forest systems. The educational path is completed with internship activities at affiliated institutions/companies and professional firms and the preparation of the final thesis.

*The course prepares for the profession of (ISTAT codes):* ■ Forestry technicians - (3.2.2.1.2) ■ Environmental control technicians - (3.1.8.3.1)

### FOOD AND GASTRONOMIC SCIENCE AND TECHNOLOGY

*Class: L-26 R - Food Science and Technology*

Specific educational objectives of the Course: The course of study in Food and Gastronomic Science and Technology aims to provide the student with adequate knowledge and skills oriented to the entire production chain of food, food preparation and gastronomy, as well as adequate preparation on the general issues of the agro-food system. In addition, the student learns, through frontal, practical and laboratory activities, the main scientific methods of investigation to use the acquired knowledge for professional purposes. The training activities also include training internships and professional internships, to be carried out in companies, external bodies or research facilities. The skills acquired will allow the graduate in Food and Gastronomic Science and Technology to carry out technical, planning and supervisory tasks in the activities of production, processing, distribution, catering and administration of food, as well as in the evaluation of food habits and consumption.

*The course prepares for the profession of (ISTAT codes):* ■ Food preparation technicians - (3.1.5.4.1) ■ Service Production Technicians - (3.1.5.5.0) ■ Biochemical Laboratory Technicians - (3.2.2.3.1) ■ Food Technicians - (3.2.2.3.2) ■ Sales and Distribution Technicians - (3.3.3.4.0) ■ Hospitality and related occupations technicians - (3.4.1.1.0) ■ Food production technicians - (3.1.5.4.2)

## TWO-YEAR MASTER'S DEGREE COURSES

### MEDITERRANEAN AGRICULTURAL PRODUCTION SCIENCES

*Class: LM-69 R - Agricultural Science and Technology*

Specific educational objectives of the Course: The main objective of the course is to train highly qualified professionals, prepared to face the challenges of innovation and sustainability in the agricultural and rural sectors, with a particular focus on the peculiarities of the Mediterranean. The course of study integrates different disciplines to provide students with advanced knowledge in plant and livestock production, soil fertility and conservation, biodiversity protection, crop protection, as well as economic-management skills and in the agricultural engineering sector.

Graduates in this course will be able to carry out professional activities of planning, management, research, training, control and coordination in agricultural supply chains, responding to market needs and ensuring the quality and safety of products, always with a strong commitment to respect agricultural ecosystems.

*The course prepares for the profession of (ISTAT coding):* ■ Agronomists and foresters - (2.3.1.3.0)

- Researchers and technicians with degrees in life sciences - (2.6.2.2.1)
- Researchers and technicians with degrees in agricultural, livestock and animal production sciences - (2.6.2.2.2)

### SUSTAINABLE FOREST AND MOUNTAIN LAND MANAGEMENT

*Class: LM-73 R - Forestry and Environmental Sciences and Technologies*

Specific learning objectives of the course: The course provides the most appropriate knowledge to understand, analyze and interpret the complex interactions that occur within agro-forestry ecosystems and between the biotic and abiotic components that characterize them, with a view to a sustainable and functional management of the territory.

The wide and varied course of study allows to train professionals able to face, with a multi-disciplinary approach, the ecological and environmental challenges in a socio-economic and climatic scenario subject to rapid and profound changes. In this perspective, and in line with the ability to understand the complexity of environmental systems, graduates are able to combine and integrate naturalistic, biological and technological knowledge to ensure the most suitable operational choices and solutions. *The course prepares for the profession of (ISTAT coding):*

- Agronomists and foresters - (2.3.1.3.0)
- Researchers and technicians with degrees in agricultural, livestock and animal production sciences - (2.6.2.2.2)

### FOOD QUALITY AND SAFETY SCIENCES

*Class: LM-70 R - Food Science and Technology*

Specific educational objectives of the Course: The course aims to provide, on the basis of a solid preparation on the theoretical-scientific aspects, acquired in the three-year degree, advanced knowledge in the field of technical management of agri-food systems and supply chains. The course also trains high-profile professionals able to use a wide spectrum of knowledge to interpret, describe and solve, in an innovative way, problems related to agri-food supply chains, within agri-food companies, companies that integrate the chain of production, processing, storage and distribution of food, companies of large-scale distribution, companies operating in the field of commercial and collective catering, Public and private bodies for planning, analysis, control, certification and scientific investigations aimed at innovation, protection and enhancement of food production, training institutions and in the freelance profession.

*The course prepares for the profession of (ISTAT coding):*

- Food Technologists - (2.3.1.1.8)
- Biotechnologists - (2.3.1.1.4)
- Researchers and technicians with degrees in agricultural, livestock and animal production sciences - (2.6.2.2.2)