



Università di Camerino School of Bioscience and Veterinary Medicine

BIOLOGICAL SCIENCES

Master degree

Second Cycle Degree Duration 2 years ECTS credits 120 Campus Location Camerino web site biologicalsciences.unicam.it

School of Bioscience and Veterinary Medicine

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Delegates

Educational Guidance

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Stage and Placement (Internship)

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Educational Manager

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INTRODUCING THE MASTER

The second level degree in Biological Sciences (LM-6 class Biology) aims to train graduates with advanced knowledge and expertise in update biomolecular and biotechnological methodologies for application in diagnostic, nutritional, and environmental fields. Indeed, students can choice among three parallel curricula:

- molecular diagnostics and biotechnology
- nutrition and functional food
- biodiversity and ecosystems management.

These curricula, in combination with core courses, give students flexibility to tailor their degree to their background, interests, and career goals.

In order to support the mobility and the successful integration of students and graduates in an international context, all the courses will be presented in English.

ADMITTANCE REQUIREMENTS

- Bachelor Degree that satisfies the requirements for access to University Master Degree courses
- List of subjects studied (transcript of records with grades obtained):
 - at least 15 ETCS in basic courses (Mathematics, Physics, Chemistry)
 at least 60 ETCS in courses in biological areas
- Level of language proficiency (strongly recommended):

ENGLISH level B2 (Independent User)

Further information on admission rules, pre-admission deadline and other services at http://international.unicam.it

CAREER OPPORTUNITIES

The goal of the Master course in Biological Sciences is to prepare its graduates to start a career in different areas of Biological Sciences with particular regard to scientific research and diagnostics on biomedical, nutritional, and environmental fields. Graduates will be able to deal with the application of biology and biotechnology, at functional and molecular level, in industry, in service sector and in various areas of public administration. The degree in Biological Sciences, through the specific curricula, properly prepares professional figures, such as the nutritional biologist, who are allowed to formulate personal diets and oversee education programs and nutritional and environmental surveillance programs. All curricula will prepare students to engage in research, lead lab teams, make development and planning decisions, create and apply research modalities to large projects.

Graduates in Biological Sciences will be adequately prepared for access to third education level (PhD programs or specialization school) in molecular biology and biotechnology all over the world.

Classes are held in English

Teaching activities will be held in a face-to-face mode in the University classrooms. It is possible to attend classes also in remote mode.





COURSE STRUCTURE

There are two Semesters, from October to the end of January, and from March to mid-June. The Winter Exam Session is in February. The programme of study proposes three different curricula focused to achieve a deeper education in specialized areas of Biology or Biotechnology.

Nutrition and Functional Food

l year	ECTS
Genomics and Proteomics	12
High Performance Bio-Analytical Methods	6
Epigenetics	6
Food Pathology	6
Applied Nutrition I	10
Rotation Laboratory	6
Student's choice	8

ll year	ECTS
Functional Food	6
Endocrinology and Metabolism	6
Applied Nutrition II	8
Epidemiology of Nutrition-Related Pathologies	6
Blood Parameters and Nutritional Conditions	6
Experimental Thesis	30
Master Thesis	4

Molecular Diagnostics and Biotechnology

Biodiversity and Ecosystems Management

Population Genetics and Animal Ecology

Animal Digestive Adaptation to Environmental Conditions

Applied Landscape Ecology and Ecosystems Management

Principles of Landscape Ecology and Plant Sociology

Biodiversity Assessment and Monitoring Schemes

l year	ECTS
Genomics and Proteomics	12
High Performance Bio-Analytical Methods	6
Epigenetics	6
Biology of Cancer and Biomolecular Therapeutic Agents	6
Clinical and Molecular Diagnostics	6
Rotation Laboratory	6
Student's choice	8
High Performance Bio-Analytical Methods Epigenetics Biology of Cancer and Biomolecular Therapeutic Agents Clinical and Molecular Diagnostics Rotation Laboratory	6 6 6 6

ll year	ECTS
Stem Cell Technologies and Animal Models	12
Molecular Parasitology	6
Molecular Ecology	6
Molecular Archeological and Forensic Anthropology	6
Microbial Pathogenesis and Biofilms	6
Experimental Thesis	30
Master Thesis	4

ll year	ECTS
Soil Microbiology and biodiversity	7
Plant Population Genetics and Ecology	7
Blood Parameters and Nutritional Conditions	6
Ecosystem services	5
Experimental Thesis	30
Master Thesis	4

TUITION FEES, DISCOUNTS AND GRANTS AVAILABLE

find out at

l vear

Food Pathology

Applied Nutrition

Student's choice

Rotation Laboratory

http://www.unicam.it/studente/ guida-dello-studente

and

https://international.unicam.it/ services/scholarships



QUALITY ASSURANCE SYSTEM

ECTS

5

5

12

6

6

8

5

6

8

UNICAM Quality Management System Certificate ISO 9001:2008 (from AFAQ-France, a French leader and one of the first certification bodies at the global level) guarantees students the quality of services provided.

The guarantee is via a rigorous analysis of internal organizational procedures and the prompt addressing of any weaknesses or shortcomings whether detected or reported by the students themselves.

The Quality Management System includes the following support services for students: orientation and guidance, mentoring, International mobility, Internships and communication. These integrate with and support the educational activities, so as to contribute to the complete training of the student.



For 2019, in the **U-MULTIRANK** international ranking, UNICAM was placed among the top 25 universities in the world in the area of international orientation, chosen among 1700 universities (of which 49 are Italian) from 96 countries.

The annual ranking takes into consideration the areas of greatest interest to students such as teaching and learning, knowledge transfer, orientation and research.

