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 choose among parallel curricula:

• Molecular Diagnostics and Biotechnology
• Nutrition: Functional and Sustainable Food
• Conservation Biology and Environmental 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, these courses will be presented in English. The characterization of the course is also enriched of a further curriculum, carried out in Italian and more specifically aimed at preparing for the profession of nutritional biologist, with a particular attention towards sports nutrition:

• Nutrizione per il Benessere e lo Sport.

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 ECTS in basic courses (Mathematics, Physics, Chemistry)
  - at least 60 ECTS 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.
These integrate with and support the educational activities, so as to contribute to the complete training of the student.

**International mobility, Internships and communication.**

The Quality Management System includes the following support services for students: orientation and guidance, mentoring, shortcomings whether detected or reported by the students themselves.

The guarantee is via a rigorous analysis of internal organizational procedures and the prompt addressing of any weaknesses or deficiencies. Certification bodies at the global level (ISO9001:2015, AFAQ-France) guarantees students the quality of services provided.

### QUALITY ASSURANCE SYSTEM

UNICAM Quality Management System Certificate ISO ISO9001:2015 (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 programme of study proposes different curricula focused to achieve a deeper education in specialized areas of Biology or Biotechnology.

#### 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.

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**Molecular Diagnostics and Biotechnology**

1 year: CFU
- Genomics and Proteomics: 12 CFU
- High Performance Bio-Analytical Methods: 6 CFU
- Epigenetics: 6 CFU
- Therapy Agents: 6 CFU
- Clinical and Molecular Diagnostics: 6 CFU
- Rotation Laboratory: 6 CFU
- Student choice: 8 CFU

2 year: CFU
- Blood Parameters and Nutritional Conditions: 6 CFU
- Endocrino-Metabolic Interplay: 6 CFU
- Population Epidemiology through Genome Wide Association Studies: 8 CFU
- Internship: 6 CFU
- Student choice: 8 CFU
- Final Dissertation: 4 CFU

**Nutrition: Functional and Sustainable Food**

1 year: CFU
- Alternative Food & Nutrients Sources: 6 CFU
- Applied Nutrition: 6 CFU
- Food Quality: 12 CFU
- Functional-Sustainable Food Technologies: 6 CFU
- Microbiota and Nutritional Conditions: 6 CFU
- Epigenetics: 6 CFU
- Pathological Conditions related to Nutritional Habits: 6 CFU
- Sustainable Food Systems: 12 CFU

2 year: CFU
- Animal Adaptation to Environmental Conditions: 6 CFU
- Ecosystem Services: 6 CFU
- Plant Population Genetics and Ecology: 7 CFU
- Soil Microbiology and Biodiversity: 6 CFU
- Experimental Thesis: 30 CFU
- Final Dissertation: 4 CFU

**Conservation Biology and Environmental Management**

1 year: CFU
- Community Ecology: 8 CFU
- Applied Statistics: 6 CFU
- Monitoring Schemes: 12 CFU
- High Performance Bio-analytical Methods: 6 CFU
- Population Genetics and Animal Ecology: 6 CFU
- Principles of Landscape Ecology: 6 CFU
- Rotation Laboratory: 6 CFU
- Student Choice: 10 CFU

2 year: CFU
- Basi Etnico-Culturali della Nutrizione: 6 CFU
- Ecosistema Microbiota-Stato Nutrizionale Organismo: 6 CFU
- Endocrino e Metabolismo: 6 CFU
- Pathogen Microbiota and Nutritional Conditions: 6 CFU
- Functional-Sustainable Food Quality: 12 CFU
- Applied Nutrition for the Well-being and Sport: 6 CFU
- Nutritive Food & Nutrients: 6 CFU
- Nutritional/Ethnico-Cultural Food: 6 CFU
- Nutritional/Ethnico-Cultural Food: 6 CFU
- A scelta dello Studente: 8 CFU
- Tesi: 20 CFU
- Dissertation Thesis: 2 CFU

### Student Services

**Guidance**
 Orientation to master’s degrees
https://www.unicam.it/futuro-studente/vuoi-iscriverti/orientamento

**Scholarships**
- Welcome in Unicam
  - TalentinUnicam
- Welcome in Unicam
  - Student Registry
  - Welcome in Unicam
  - Scholarships

**Internships and Placements**
- Internships, Career service, Career day
- https://www.unicam.it/impresa-e-territorio/stage-e-placement

**Welcome and International mobility**
- welcoming international students, mobility programmes
  - https://international.unicam.it/

**Information**

**Open**
Monday–Wednesday–Friday: 10.30–13.00
Tuesday–Thursday: 15.00–17.00

**Address**
Polo degli Studenti - via Gentile III da Varano - 62032 Camerino

**Contributions and registrations**
Procedure available at https://miiscrivo.unicam.it from 1 July 2023. Personalized fees on the basis of the ISEE-U. Total or partial tuition fees exemptions.

**More Information**
https://www.unicam.it/didattica/guida-dello-studente
https://international.unicam.it/

**International students**
Pre-enrolment procedures and requirements
welcome@unicam.it

**Bachelor’s Degree and Master’s Degree Programmes**
https://www.unicam.it/offerta-formativa
https://www.unicam.it/offerta-formativa-en

https://www.unicam.it/

**a.y. 2023/2024**