INTRODUCING THE MASTER

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

- **Molecular Diagnostics and Biotechnology**
- **Nutrition: Functional and Sustainable Food**

These curricula, which share core courses, provide students with the flexibility to tailor their degrees to their backgrounds, interests, and career goals. To support the mobility and successful integration of students and graduates in an international context, these courses will be offered in English.

- **Conservation Biology and Environmental Management**

This curriculum is primarily presented in Italian. However, some courses, which provide relevant professional skills for an international context, are offered in English, as indicated in the list on the next page.

The characterization of the degree course in Biological Sciences is also enriched of a further curriculum, offered 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**

In parallel with the degree course in Biological Sciences, students can enroll in the Scuola di Studi Superiori “Carlo Urbani”, an institution of excellence, subject to selection based solely on merit.

For more information, visit: https://scuolastudisuperiori.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 equipped to apply biology and biotechnology at functional and molecular levels in industry, in the service sector, and in various areas of public administration. The degree in Biological Sciences, through its specific curricula, prepares professionals such as nutritional biologists, who are qualified to formulate personalized diets and oversee educational, nutritional, and environmental surveillance programs.

All curricula prepare students to engage in research, lead lab teams, make development and planning decisions, and create and apply research methodologies to large projects. Graduates in Biological Sciences will be adequately prepared for access to third-level education (PhD programs or specialized schools) in molecular biology and biotechnology worldwide.
ORGANIZATION
The course includes fundamental training activities and elective courses chosen by the student, making the study program extremely flexible and personalized. A portion of the credits (CFU) is reserved for laboratory or field activities to deepen experimental methods and the principles of scientific investigation. Periods of study abroad at numerous partner universities are highly encouraged.

COURSE STRUCTURE
There are two Terms, from October to the end of January, and from March to mid-June. The Winter Exam Session is in February, the Summer session is in June, July and September. The Study Plan proposes different curricula focused to achieve a deeper education in specialized areas of Biology or Biotechnology.

Curriculum Molecular Diagnostics and Biotechnology
I year CFU
Genomics and Proteomics 12
High Performance
Bio-Analytical Methods 6
Epigenetics 6
Biotechnology of Cancer 6
and Biomolecular
Therapeutic Agents 6
Clinical and Molecular
Diagnostics 6
Rotation Laboratory 6
Student choice 8

II year CFU
Stem Cell Technologies 12
and Animal Models 6
Molecular Parasitology 6
Molecular Ecology 6
Molecular Archeological and Forensic Anthropology 6
Microbial Pathogenesis 6
and Biofilms 6
Experimental Thesis 30
Final Dissertation 4

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

II year CFU
Blood Parameters and Nutritional Conditions 6
Endocrin-Metabolic Interplay 6
Population Epidemiology through Genome Wide
Association Studies 8
Internship 6
Student choice 8
Experimental Thesis 24
Final Dissertation 2

Curriculum Conservation Biology and Environmental Management
I year CFU
Ecologia delle comunità 8
Programmi di valutazione e monitoraggio della biodiversità/
Biodiversity assessment and monitoring schemes 12
Statistica applicata 6
Genetica della popolazione ed ecologia animale 6
Principi di ecologia del paesaggio/Principles
of landscape ecology 6
Metodi bio-analitici di precisione/ High
performance bio-analitical methods 6
Attività di laboratorio/Rotation laboratory 6
Crediti liberi / Student choice 10

II year CFU
Adattamento degli animali all’ambiente 6
Servizi ecosistemici 6
Genetica ed ecologia delle popolazioni vegetali 7
Microbiologia del suolo e biodiversità 7
Tesi sperimentale/ Experimental thesis 30
Dissertazione finale/ Final dissertation 4

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 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.

Student Services
Guidance
https://orientamento.unicam.it/

Scholarships
- Welcome:Unicam for master's degrees
- Talentin:Unicam for merit students
- Unicam/Cus per sport students
https://www.unicam.it/studente/servizi-studenti/borse-di-studio

“Carlo Urbani” School of Higher Studies
https://scuolastudisuperiori.unicam.it/

Counseling and psychological well-being
https://www.unicam.it/studente/servizi-studenti/servizio-di-consulenza-psicologica

Services for Students with Disabilities and DSA
https://disabili.unicam.it/

Internships and Placements
https://stage.unicam.it/
https://placement.unicam.it/

Welcome and International mobility
welcoming international students and mobility programs
https://international.unicam.it/

Information
Open
Monday–Wednesday–Friday 10.30–13.00
Tuesday–Thursday 15.00–17.00

Guidance
via Gentile III da Varano, 2 – 62032 Camerino
0737 404606 - 404622 – 403727 orientamento@unicam.it

Adress Student Office
via Gentile III da Varano 26 – 62032 Camerino
Ticketing: https://segreteriastudenti.unicam.it/

Contributions and registrations
Procedure available at https://miiscrivo.unicam.it/ from 3 luglio
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
Studenti International
https://international.unicam.it/ e-mail: welcome@unicam.it

Educational services, Classrooms, Lesson timetables
https://www.unicam.it/studente

Bachelor’s Degree and Master’s Degree Programmes
https://www.unicam.it/didattica