

Master Degree - Second Cycle Degree

duration 2 years - ECTS credits 120 Campus location: Camerino

School of Biosciences and Veterinary Medicine

Responsabile Corso

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Bachelor's Degree and Master's Degree Programmes

https://www.unicam.it/didattica

INTRODUCING THE MASTER / OVERVIEW

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 parallel curricula:

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

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 are offered in English.

The characterization of the course is also enriched of two further curricula, offered in Italian language The curriculum named

• Nutrizione per il Benessere e lo Sport

is more specifically aimed at preparing for the profession of nutritional biologist, with a particular attention towards sports nutrition.

The curriculum named

Biologia della conservazione e gestione ambientale

is specifically aimed to prepare for professions related to environmental management. In this curriculum, some teaching activities will be offered also in English to facilitate student mobility from other countries.

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











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.

Course structure 4 Percorsi

Molecular Diagnostics and Biotechnology

I year Genomics and Proteomics High Performance Bio-Analytical Methods **Epigenetics Biology of Cancer** and Biomolecular Therapeutic Agents Clinical and Molecular

Diagnostics Rotation Laboratory Student choice

Nutrition: Functional and Sustainable Food

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

Biologia della Conservazione e Gestione Ambientale

i year	CFU
Ecologia delle comunità	8
Programmi di valutazione	
e monitoraggio della	
biodiversità/Biodiversity	
assessment and monitoring	5
schemes	12
Statistica applicata	6
Genetica della popolazione	
ed ecologia animale	6
Principi di ecologia	
del paesaggio/Principles	
of landscape ecology	6
Igiene e monitoraggio ambienta	ale 6
Attività di laboratorio/Rotation	า
laboratory	6
Crediti liberi / Student choice	10

Nutrizione per il Benessere e lo Sport

l year	CFU
Alimenti Funzionali	
per il Benessere e lo Sport	12
Epigenetica & Nutrizione	6
Fisiopatologia & Nutrizione	12
Metodi Bioanalitici	
per la Valutazione dello Sta	to
Nutrizionale/Metabolico	6
Nutrizione Applicata 1:	
nutrizione per il benessere	6
Nutrizione Applicata 2:	
nutrizione a supporto	
dell'attività sportiva	6
Nutrizione di Precisione	
per il Benessere e lo Sport	12

CFU II year 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 Final Dissertation 4

II year	CFU
Blood Parameters	
and Nutritional Conditions	6
Endocrine-Metabolic Interplay	6
Pharmacology	
and Food Toxicology	8
Internship	6
Student choice	8
Experimental Thesis	24
Final Dissertation	2



6

6

7

7

30

4











Polo degli Studenti

Student Services

Guidance **Scholarships** Welcome - Tutoring Counseling and psychological well-being Services for Students with Disabilities and DSA International mobility



a.y. 2025/2026

Information

Guidance

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

Adress Student Offices

(registrations, study plans, university transfers, university contributions) via Gentile III da Varano 26 - 62032 Camerino

Ticketing: https://segreteriastudenti.unicam.it/

Contributions and registrations

Procedure available at https://miiscrivo.unicam.it/

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

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