



Università di Camerino
Bioscienze e Medicina
Veterinaria

BIOSCIENCES AND BIOTECHNOLOGY

Università di Camerino

Bachelor Degree

First Cycle Degree

Duration 3 years

ECTS credits 180

Location Camerino

All courses are taught in English

*School of Bioscience
and Veterinary Medicine*

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Delegates

Educational Guidance

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The bachelor degree in Biosciences and Biotechnology is an interclass degree: it consists of a common first year, where the student is provided with a solid base in mathematics, physics, chemistry, and cell biology, followed by a second and third year when the student follows either the program leading to the Biology or Biotechnology degree. Upon enrollment in the interclass degree, students must indicate the qualification desired (Biology or Biotechnology); however, the final decision between the two program degrees can be delayed to the third year, provided that the missing credits have been fully covered.

The course benefits from a friendly and skillful teaching staff and reliable supporting structures, such as laboratories, libraries, in addition to dedicated tutorship services. The Bachelor in Biosciences and Biotechnology is in the geo-biological group which ranked first in Italy for the quality of education in the ranking of Italian Universities (CENSIS, Ranking 2017/18).

Career opportunities

The course in **Biology** is appropriate for students desiring a focused, in-depth grounding in all the essential elements of the biological sciences, and is particularly suitable for students intending to pursue graduate study in biological and applied sciences.

The course in **Biotechnology** focuses on the study of biological processes of living organisms. Students learn the skills needed to naturally manipulate processes in the development of new medicine, food and organic substances. This course provides students with a basic knowledge for the study of biotechnology with an emphasis on DNA technology, cell and molecular biology, and a wide range of practical skills, supplemented with relevant aspects of ethics law and business.

In both programs, the foundation of knowledge, plus laboratory experience, prepares students to function effectively in a variety of technical and laboratory research settings.

The graduates in **Biosciences and Biotechnology** are also qualified for access to Master courses in either biological and biotechnological fields, by which they could achieve higher professionalism and also access to doctoral courses in biology or related fields.

COURSE STRUCTURE

Classes are held in two semesters, from the beginning of October to the end of January, and then from the beginning of March to the middle of June. The February break is devoted to the Winter Exam Session.

The program of study is structured around a comprehensive core curriculum that is common to both Biology and Biotechnology major but, upper-division level, coursework is designed to achieve a deeper education in specialized areas of Biology or Biotechnology. The course programs also offer flexibility through electives.

Completion of the degree program requires an internship carried out by the student under the supervision of an UNICAM tutor. An internship is a practical experience to be carried out in the university laboratories or in the workplace that offers the student an opportunity to apply, connect, and extend academic theory and competencies to build professional skills and network.

curriculum Biology (L-13)

I year	ECTS	II year	ECTS	III year	ECTS
General Biology and Histology	12	Molecular Biology,		Hygiene and Clinical Microbiology	6
General and Inorganic Chemistry	8	General Genetics	12	Fundamentals of Pathology	6
Mathematics and Statistics	12	Computer Sciences	6	Ecology and Parasitology	6
Physics	7	Biochemistry	8	Molecular Genetics	6
Organic Chemistry	7	Anatomy and Physiology	12	Clinical Biochemistry	6
English language-level B2	6	General Microbiology	6	Student's choice	12
Laboratory I	6	Cell and Developmental Biology	8	Internship	5
		Zoology and Botany	14	Final Test	3
		Laboratory II	6		

curriculum Biotechnology (L-2)

I year	ECTS	II year	ECTS	III year	ECTS
General Biology and Histology	12	Molecular Biology,		Molecular Genetics,	
General and Inorganic Chemistry	8	General Genetics	12	Genetics of Microorganism	
Mathematics and Statistics	12	Computer Sciences	6	and Microbial Biotechnology	12
Physics	7	Biochemistry	8	General and Industrial	
Organic Chemistry	7	Fundamentals of Pathology	6	Microbiology	12
English language-level B2	6	Intellectual Property, Regulatory and		Physiology	6
Laboratory I	6	Bioethical Concerns	6	Clinical Biochemistry	6
		Cell Biology and Biotechnology	8	Molecular Applications	
		Food Chemistry and Processing	6	in Biomedicine	8
		Laboratory II	6	Student's choice	12
				Internship	5
				Final Test	3

Test 2017 for background knowledge

A verification of background knowledge is mandatory for all students who enroll at the University for the first time, but it does not affect in any way the registration.

It is also possible to enroll before completing the verification.

The test will take place **on September 28, 2017, 9:30**, at the 'Polo Didattico di Scienze della Terra (Geology)' (via Gentile III da Varano, Camerino).

An Identification Document is required.

<http://biologybiotechnology.unicam.it/test2017/>

ENTRY REQUIREMENTS

High School Diploma

(with minimum 12 years education) Level of language competence required: ENGLISH level B1 (Threshold level) of the CEFR

INFORMATION FOR ENROLLMENT, TUITION FEES, OTHER SERVICES

at www.unicam.it/international

Didactic Manager

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