



Degree in Biology



UNIVERSIDAD
DE
CÓRDOBA



Faculty of Science
University of Córdoba

Why study **Biology** at the University of Córdoba?

You want to acquire a solid training and become a versatile professional, able to adapt to life's changing needs and to fill any job niche, from healthcare to teaching, from agriculture and livestock breeding to basic research and biotech companies.

You feel a special sensitivity for nature and want to understand it and care for it. You desire to become a living encyclopædia and devote yourself to the world of commerce, marketing or scientific communication.

You consider this as a starting point and to broaden your horizons in the future by becoming a specialist through a master's degree in the fields of botany, zoology, ecology, natural resource management, microbiology, cell biology, genetics, biochemistry or biotechnology.

You understand research as a cornerstone for the advancement of any science. The faculty of the Degree in Biology at the University of Córdoba carries out cutting-edge research work in research teams, and is a member of leading research institutes such as the Maimonides Institute of Biomedical Research of Cordoba (IMIBIC), among others. In addition, the Rabanales Campus includes spaces such as the University Forest and the Román Pérez field station (an annex to the campus), which incorporates access to great biodiversity, highly suitable for the study of Biology.

You can choose any reason... and for that reason alone you should study Biology with us.



Thanks to our **Degree in Biology** you will obtain:

- A solid foundation of knowledge in the morphology, systematics, structure, function and interaction of living beings.
- Practical skills to perform analyses related to this knowledge, both for practical use in solving real problems and in the fields of teaching and research.
- A set of key skills for your professional performance and employability including analytical skills, foreign language skills, autonomy in decision making, teamwork, thought processes and critical thinking.

Curriculum

The Degree in Biology belongs to the science branch and has a duration of 4 years and 240 ECTS credits, which provides a thorough training focused on:

- Studying, identifying, analysing and classifying living organisms.
- Research, development and control of biological processes.
- Analysis of the biological consequences of products of any nature and control of their action.
- Evaluation and management of natural resources.
- Environmental impact assessment, planning, management, exploitation and conservation of populations and ecosystems.
- Genetic and biochemical studies.
- Scientific and technical advice on sanitary and biotechnological processes.

General **Curriculum Structure**

Subject category	ECTS
Basic training	60
Compulsory	123
Options	42
Final dissertation	15
TOTAL	240

Full Curriculum

FIRST TERM

YEAR 1

Subject	ECTS
Mathematics	6
Chemistry	6
Foundations of Research and Experimentation in Biology	6
Instrumental and methodological principles for Organismal and Systems Biology 1	6
Instrumental and methodological principles in Cellular and Molecular Biology 1	6

SECOND TERM

Subject	ECTS
Statistics	6
Physics	6
Computer Tools applied to Biology	6
Instrumental and methodological principles for Organismal and Systems Biology 2	6
Instrumental and methodological principles in Cellular and Molecular Biology 2	6

YEAR 2

Subject	ECTS
Plant and Animal Cell Biology and Histology	Whole year
Biochemistry	Whole year
Botany	Whole year
Genetics	Whole year
Zoology	Whole year

Subject	ECTS
Plant and Animal Cell Biology and Histology	12
Biochemistry	12
Botany	12
Genetics	12
Zoology	12

YEAR 3

Subject	ECTS
Plant Physiology	Whole year
Animal Physiology	Whole year
Microbiology	Whole year
Ecology 1	6
Immunology	6

Subject	ECTS
Plant Physiology	12
Animal Physiology	12
Microbiology	12
Ecology 2	6
Edaphology	6

YEAR 4

Subject	ECTS
Final dissertation	Whole year
Biology project writing and development	3
Option 1	6
Option 2	6
Option 3	6

Subject	ECTS
Final dissertation	15
Option 4	6
Option 5	6
Option 6	6
Option 7	6




Our students will acquire a solid foundation of knowledge in the morphology, systematics, structure, function and interaction of living beings



Options

Subject	ECTS
Advances in reproduction	6
Developmental biology	6
Basic biotechnology	6
Ethology	6
Environmental plant physiology	6
Mycology	6
Virology	6
Functional adaptations to the environment	6
Molecular Biology and Biomedicine	6
Cell Biology and Pathology	6
Agri-food Biotechnology	6
Applied Ecology	6
Evolution	6
Geobotany	6
Genetic Engineering	6
Industrial Microbiology	6
Applied Zoology	6
Company internships	6



The enclave of the Rabanales University Campus, with facilities for laboratory hands-on learning, the university forest and the Román Pérez field station, is optimal for the study of biology in Córdoba

External internships

External internships in private companies and public institutions can be carried out as curricular internships, i.e. as an optional subject in the fourth year and second semester, and also as extracurricular internships, which can be included in the European Diploma Supplement (Europass). All the same, they represent an added value to the student's curriculum vitae and their first work experience. The Faculty of Science of the University of Córdoba has agreements with over 400 companies that can offer internships positions for our students.

Student mobility

Complementary training in other universities facilitates employability and foreign language skills as they reinforces respect for diversity and the ability to understand other cultures. The Faculty of Science participates in international mobility programmes, such as Erasmus+, PIMA, UCO Global, with destinations in all continents, as well as national mobility (SICUE).

Where is the Degree in Biology taught?

The Degree in Biology is taught in the Faculty of Science, located in the Rabanales University Campus. It can be reached by train (it takes around 5 minutes from Córdoba central station), local buses (peripheral lines "E" and "Rabanales") and bicycle lane. The Campus has a variety of facilities and resources that facilitate the academic and social aspects of university life.

Professional **profile** and **labour integration**

Graduates in Biology shall acquire a solid training that enables them to work in multiple fields. Among the most important career opportunities for biologists are the following:

- Health professional in clinical laboratory tasks, human reproduction, public health, nutrition and dietetics, animal and plant health, among others.
- Research & Development + Innovation professional in the field of life sciences.
- Agricultural professional for the optimization of natural resources and for new exploitable resource finding.
- Information, documentation and scientific dissemination work in museums, natural parks, zoos, botanical gardens, publishing houses, as well as and companies related to life and the natural environment.
- Management and organization of businesses within the field of biology.
- Marketing and trade of products and services related to biology.
- Teaching in secondary and middle schooling, university, vocational training, lifelong and postgraduate education. This includes the direction and management of educational centers and educational consulting.





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