

WHAT A BIOLOGY GRADUATE CAN DO...

The wide range and diversity of the biological sciences offer many job prospects to graduates in biology. The most important fields in which a biologist can find a job are:

- Health professionals working in **clinical laboratories**, human reproduction, public health, nutrition and dietetics, animal and plant health, among others.
- **Research + development + innovation** in the life sciences.
- **Agriculture professionals** optimising natural resources and seeking new and exploitable resources.
- **Information, documentation and dissemination** in museums, natural parks, zoos, publishing houses, and any other companies dedicated to the life sciences and the environment.
- **Business management and organization** in the field of biology.
- **Marketing and trading** of biology-related products and services.
- **Teaching** at the secondary school, university and postgraduate level as well as in lifelong vocational training programmes. Management in academic institutions and educational consultancy services.

WHY STUDY BIOLOGY?

Because you want to get a solid education and become a versatile professional who is able to adapt to society's changing needs and take up any job position ranging from health care to teaching, agriculture and farming to basic research or in the biotech industries. Because you would like to be a living encyclopedia and work in the world of trade, marketing or communications. Because you are concerned about nature and want to gain a better understanding of it and take care of it. Because this is just a starting point for pursuing a master's degree in ecology, natural resource management, microbiology, genetics, biochemistry or biotechnology. Whatever your reason may be, the First Degree in Biology is the way to get there.



Biology

More information at:

<http://www.uco.es/ciencias/>



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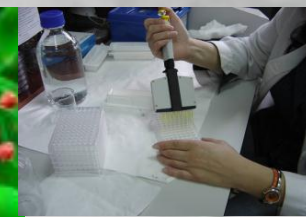
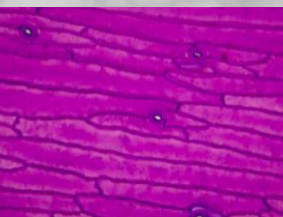
UNIVERSIDAD DE CÓRDOBA



UNIVERSITY OF CORDOBA
School of Science

First Degree in
BIOLOGY





LEARNING OUTCOMES

The First Degree in Biology ensures that you will achieve a number of learning outcomes. These include knowledge of the morphology, systems, structure, interaction and analysis of living organisms as well as specific skills for practical applications or teaching and research. The degree also provides the basic skills needed for your personal and professional development.

GENERAL OBJECTIVES OF THE FIRST DEGREE

The main objective of the First Degree in Biology is to train students to become professionals in the field of biology. To achieve this goal, students are provided the opportunity to attain extensive knowledge and solid experimental and practical training, while acquiring the necessary skills and competences.

The First Degree in Biology prepares students for the following professional activities:

1. Study, identification, analysis and classification of living organisms and biological and material agents, their remains and signals of their activity.
2. Research and development for the control of biological processes.
3. Production, processing, handling, conservation, identification and quality control of organisms and materials of biological origin.
4. Analysis of biological agents and materials.
5. Study and control of the biological effects of products.
6. Study and application of genetics.
7. Ecological studies, environmental impact assessment and the planning, management, exploitation and conservation of populations and ecosystems.
8. Land and marine renewable natural resource planning and management.
9. Biology teachers at educational levels requiring a first degree.
10. Scientific and technical consultancy in the field of biology.
11. Scientific analysis of health care processes.
12. Other biology-related activities.

COURSE STRUCTURE

FIRST YEAR	
1 st semester	2 nd semester
<ul style="list-style-type: none"> Mathematics Chemistry Fundamentals of Study and Experimentation in Biology Instrumental and Methodological Principles of Organism and System Biology I Instrumental and Methodological Principles of Cell and Molecular Biology I 	<ul style="list-style-type: none"> Statistics Physics Computer Applications in Biology Instrumental and Methodological Principles of Organism and Systems Biology II Instrumental and Methodological Principles of Cell and Molecular Biology II
SECOND YEAR	
Annual (1 st and 2 nd semester)	
<ul style="list-style-type: none"> Cell Biology and Plant and Animal Histology Biochemistry Botany Genetics Zoology 	
THIRD YEAR	
Annual (1 st and 2 nd semester)	
<ul style="list-style-type: none"> Plant Physiology Animal Physiology Microbiology 	
1 st semester	2 nd semester
<ul style="list-style-type: none"> Ecology I Immunology 	<ul style="list-style-type: none"> Ecology II Edaphology
FOURTH YEAR	
Annual (1 st and 2 nd semester)	
<ul style="list-style-type: none"> Final Project 	
1 st semester	2 nd semester
<ul style="list-style-type: none"> Project Writing and Development Optional courses 1, 2 and 3 	<ul style="list-style-type: none"> Optional courses 4, 5, 6 and 7
OPTIONAL COURSES	
<ul style="list-style-type: none"> Advances in Reproduction Developmental Biology Basic Biotechnology Ethology Evolution Environmental Plant Physiology Molecular Biology and Biomedicine Biology and Cell Pathology Industrial Microbiology 	<ul style="list-style-type: none"> Applied Ecology Genetic Engineering Applied Zoology Mycology Virology Functional Adaptations to the Environment Agricultural and Food Biotechnology Geobotany

INTERNSHIPS

Doing an internship at outside institutions and companies gives students the opportunity to apply the knowledge and skills they have acquired at university. It is the perfect complement to formal academic training and a highly inspiring experience that is particularly important for those undertaking a scientific and technical degree. The UCO School of Science recognises credits earned through internships. The School of Science currently offers more than 350 internship placements at local, regional and national companies and institutions.

NATIONAL AND INTERNATIONAL MOBILITY PROGRAMMES

Academic mobility is a fundamental element in the personal and academic development of students. Mobility improves job opportunities, while fostering respect for diversity and the understanding of different cultures. The UCO School of Science participates in a wide range of national and international student mobility programmes to aid students in enhancing their academic training. These include the SICUE-SENECA Programme for mobility between Spanish universities and the ERASMUS and Leonardo da Vinci Programmes in Europe for education and training internships. Other mobility programmes are also available in America and Asia.

MASTER'S AND PhD PROGRAMMES

The First Degree in Biology provides students direct access to the job market and the opportunity to further their education through Master's or PhD programmes such as those offered by the University of Cordoba.

RESOURCES AND SERVICES

A large number of facilities and services are available on the UCO Rabanales Campus:

- Lecture halls, interactive classrooms, computer rooms and laboratories
- Library and study halls
- Cafeterias
- Banks
- Job information office
- Copy service
- Lucano Student Residence Hall
- Mental Health Service
- Health Care Unit
- Sports facilities (Ucodeporte)
- Wifi