

## WHAT A BIOLOGY GRADUATE CAN DO...

The wide range and diversity within 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, etc.
- **Research + development + innovation** in the life sciences.
- **Agriculture professionals** optimising natural resources whilst seeking new and exploitable ones.
- **Information, documentation and dissemination** in museums, natural parks, zoos, publishing houses, and any other company 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 programs. Management in academic institutions and educational constituency 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 and 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 Bachelor's 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**  
**Faculty of Science**

**Bachelor's Degree in**  
**BIOLOGY**





## LEARNING OUTCOMES

The Bachelor's 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 in addition to specific skills in practical applications for teaching and research. The degree also provides the basic skill set needed both personal and professional development.

## GENERAL OBJECTIVES

The main objective of the Bachelor's Degree in Biology is to prepare students to become professionals within the field of Biology. In order to achieve this goal, students are provided the opportunity to gain extensive knowledge and receive both theoretical and practical training.

The Bachelor's Degree in Biology prepares students for the following professions:

1. The study, identification, analysis and classification of living organisms and both biological and material agents in addition to their remains and signals of their activity.
2. Research and development for the control of biological processes.
3. The production, processing, handling, conservation, identification and quality control of organisms and materials of a biological origin.
4. Analysis of biological agents and materials.
5. The study and control of the biological effects of products.
6. The 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 natural renewable resource planning and management.
9. Teaching biology at educational levels that require a Bachelor's Degree.
10. Scientific and technical consultancy in the field of biology.
11. The scientific analysis of health care processes.
12. Other biology-related activities.

## COURSE STRUCTURE

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

## INTERNSHIPS

Internship at outside institutions and businesses give students the opportunity to apply the knowledge and skills they have acquired at university, complement formal academic training and provide a highly stimulating experience that is particularly important for those undertaking a scientific or technical degree. The UCO Faculty of Science recognises credits earned through internships. The Faculty of Science currently offers more than 350 internship placements at local, regional and national institutions.

## NATIONAL AND INTERNATIONAL MOBILITY PROGRAMMES

Academic mobility is a fundamental element in the personal and academic development of students. Mobility programmes expand job opportunities, while fostering respect for diversity and an understanding of different cultures. The UCO Faculty 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 Programme for mobility between Spanish universities, 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 Bachelor's Degree in Biology provides students with direct access to the job market as well as 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 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