

Degree in Environmental Science



UNIVERSIDAD
DE
CÓRDOBA



Faculty of Science
University of Córdoba

Why study **Environmental Science** at the University of Córdoba?

Environmental issues (or distortions) arise as a consequence of interactions between the human environment and the natural environment. On the one hand, natural processes that generate negative effects on the human environment give rise to natural hazards. On the other hand, any human activity that causes a deterioration in the environment is responsible for such impacts. One of the roles of our graduates in Environmental Science is to analyse these interactions, as well as to design both preventive and corrective measures aimed at mitigating their negative effects. Today, more than ever, it is necessary to research and to acquire knowledge to be able to provide for an education in this multidisciplinary subject, which gathers a plethora of scientific specialties.

The Rabanales Campus, where the Degree in Environmental Science of the University of Cordoba is taught, is located in an ecotone area on the edge of Sierra Morena. The campus itself holds great biodiversity, a curated matter thanks to the adaptation of the so-called university forest, that recreates different habitats. Next to the campus is the Román Pérez field station, a farm with over 300 hectares and an agreement that allows to be used by the university community for teaching and research. It has proven especially useful for practical teaching in the Environmental Sciences Degree.

Address the environmental issues generated by today's lifestyle, from a scientific perspective. Propose solutions that preserve the environment, from a multidisciplinary angle, and commit to the sustainability of our planet. Respond to legal requirements by governments and institutions worldwide. Choose our Environmental Science degree.



Our Degree in **Environmental Science** will grant you:

- Mastery of oral and written communication, information management, problem solving, critical thinking, sensitivity to environmental matters, interpretation of data and experimental evidence from theoretical knowledge.
- Capacity for a multidisciplinary analysis of environmental data, indices and indicators.
- Ability to understand and use technical procedures and languages, such as environmental law interpretation.
- Competence to manage water and energy resources and to treat waste generated by human activity.
- Tools to develop environmental awareness and education initiatives as a professional activity.

Curriculum

Our degree in Environmental Science belongs to the science branch, and has a duration of 4 years and 240 ECTS credits. It has a clear multidisciplinary character. Different fields converge in our Environmental Science studies towards a graduate profile that shall make you a versatile professional holding the required talents in the many areas that define and differentiate this profile from other graduate profile and will allow for a career dedicated to the preservation of the environment.

General **Curriculum Structure**

Subject category	ECTS
Basic training	60
Compulsory	141
Options	24
Final dissertation	15
TOTAL	240

Full Curriculum

FIRST TERM		SECOND TERM	
YEAR 1			
Subject	ECTS	Subject	ECTS
Foundations of Biology	6	Applied Cartography	6
Foundations of Chemistry	6	Environmental Management and Law	6
Foundations of Chemistry	6	Zoological Foundations for the Study of the Environment	6
Foundations of Mathematics	6	Human Activity and the Environment	6
Geology - Hydrology - Edaphology	Whole year	Geology - Hydrology - Edaphology	12
YEAR 2			
Subject	ECTS	Subject	ECTS
Meteorology and Climatology	6	Botanical Basis for Environmental Management	6
Environmental Chemistry	6	Foundations of Environmental Engineering	6
Environmental Economics	6	Microbiology	6
Geographic Information Systems	6	Spatial Planning and Natural Hazards	6
Statistics	6	Ecology	6
YEAR 3			
Subject	ECTS	Subject	ECTS
Wastewater Treatment	6	Air Pollution	6
Environmental Analytical Chemistry	6	Soil Contamination by Organic, Agricultural and Industrial Residues	6
Environmental Impact Assessment: Prevention and Control Tools	6	Environmental Management Systems and Audit	6
Environmental Toxicology and Public Health	6	Physical Environment Management	6
Ecosystem Management	6	Energy Management and Eco-efficiency	6
YEAR 4			
Subject	ECTS	Subject	ECTS
Final dissertation	Whole year	Final dissertation	15
Project Planning and Management	6	Option 1	6
Nature Conservation: Environmental Restoration and Rehabilitation, Landscaping	6	Option 2	6
Environmental Education	6	Option 3	6
Quality and Business Studies	6	Option 4	6



Students will acquire a versatile and multidisciplinary training aimed at the preservation of the environment



Options

Subject	ECTS
Environmental Data Analysis	6
Gene-Environment Interaction	6
Theories and Techniques for Socio-environmental Sustainability	6
Plant Ecophysiology	6
Environmental Biotechnology	6
Fish & Wildlife Management	6
Pollution Control via Catalysis	6
Heavy Metal Contamination	6
Territorial and Urban Planning	6
Urban and Industrial Waste Management	6
Ionizing Radiation	6
Water Physicochemistry	6
Techniques for Urban Planning Assessment	6
Management and Conservation of Flora and Vegetation	6
Company internships	6



Society requires professionals capable of dealing with environmental issues



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 Environmental Science taught?

The Degree in Environmental Science 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**

Our studies in Environmental Science enable students to pursue a career in a variety of fields:

Environmental Assessment

Directed towards working in the elaboration of essays, studies, reports and technical assistance that respond to the needs to comply with existing environmental regulations. It corresponds to environmental impact assessment, consulting and audit.

Environmental Planning

Centered in environmental land planning for the assessment and prevention of natural hazards through the design, management and execution of urban, industrial and/or rural environmental projects, plans and programmes.

Environmental Management

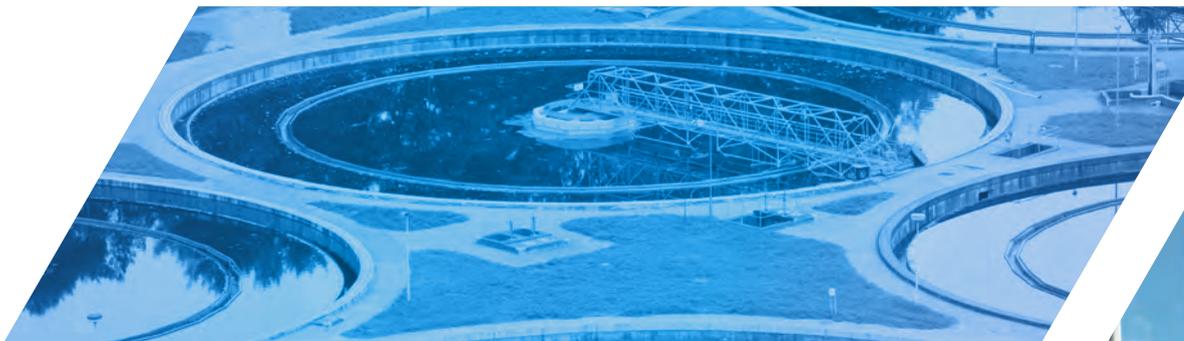
This professional path is related to the development, implementation and maintenance of quality and environmental management systems in companies and institutions, as well as the management of natural, rural and urban environment.

Environmental Technology

Aimed at the design of environmental infrastructures and at the feasibility studies for applicable technologies, this too makes part of the field of action of environmentalists. In addition, industrial environmental technology includes energy management, as well as solid and liquid waste disposal.

Communication and Training

Environmental Science graduates lead training, awareness and environmental education campaigns. Environmentalists fit to be responsible for environmental information and communication.



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