

## **What does an environmental expert do after graduating the ENVIRONMENTAL SCIENCE specialization?**

This expert contributes to environmental management in supporting the decision-making process, by the analysis, assessment and planning of environmental actions and biodiversity conservation.

## **How do you become an expert in environmental problems?**

Environmental Science is a multidisciplinary field. For an integrated training in the field, our Environmental Science study program aims at two major directions:

- **Environmental analysis and assessment:** you will acquire skills necessary to conduct and interpret measurements and analyses to investigate the state of the major environmental components, such as air, water, soil, biota, natural resources and landscape. In addition, we will support you for the development of practical skills in this field by applied activities. These activities will be conducted both during practical field trips and during seminars and hands-on activities in the laboratories of our faculty equipped with state-of-the-art instrumentation.
- **Environmental Management, Audit and Decision-Making:** Based on the conclusions following the environmental analysis, you will learn how to establish environmental impact mitigation measures necessary for environmental and biodiversity protection. Over the years of study, you will learn to conceptualize the complex socio-environmental systems, to facilitate optimum decision-making in order to ensure sustainability.

During your studies you will benefit from traineeships in partner companies and environmental institutions. In addition, you will take advantage of the opportunities provided by the research centers within our faculty, to become involved in the ongoing research projects even during your Bachelor studies.

## **What will you learn throughout the years of study?**

During the first years you will learn basic notions about the major environmental components and about the methods used for their analysis and assessment. Then, gradually, you will acquire knowledge on specific aspects and themes such as the environmental legislation, the reference terms used in environmental studies, types of studies on environmental and biodiversity protection or environmental aspects generated by activities, processes, products and services of an organization.

In order to give you the best professional training opportunities, we follow closely the requirements of the market as well as the current knowledge necessities in developing our curricula.

**Core disciplines:****1<sup>st</sup> Year:**

Fundamentals of environmental science, Applied informatics, Environmental geodynamics, Environmental geography, Plant biology, Environmental applied GIS, Animal biology, Environmental physics, Environmental chemistry, Biogeography and biodiversity conservation, Foreign language, Physical education

**Fieldwork****2<sup>nd</sup> Year:**

Environmental geology, Meteorology and climatology, Ecology and ecological management, Hydrology and hydrogeology, Legislation and environmental policy, Soil science, Applied hydrogeology, Environmental management systems, Mineral resources management.

**Optional courses:**

Protected areas management OR Technological risk assessment

Landscape planning, dynamics and typology OR Integrated environmental monitoring

**Fieldwork****3<sup>rd</sup> Year:**

Control of environmental chemical pollutants, Environmental radioactivity, Environmental geomorphology, Integrated waste management, Environmental impact assessment, Land use planning, Environmental and human health.

**Optional courses:**

Risks and natural hazards OR Global environmental changes

Alternative energies OR Atmospheric remote sensing

Water management and treatment technologies OR Ecotourism

Environmental samples analysis OR Management of environmental projects

Environmental economy OR Ethics in environmental research

**Elaboration of Bachelor Thesis****What skills will you possess after completing your studies and how will these help you in the future?**

The professional skills you will develop over the years of study with us will prepare you for:

- **Providing consultancy and conducting environmental studies** to identify and analyze environmental issues
- **Conduct a wide range of services for environmental protection**, among which the implementation and coordination of management systems, planning and environmental protection or assessment, monitoring and control of anthropic impact on the environment.

**Beside these key skills, you will develop even more transversal skills**, such as communication abilities, multidisciplinary teamwork capacities, analytical and critical thought on environmental problems and sustainable development.

**After graduation, you may choose various professional trajectories** like ecologist, environmental adviser, environmental analyst, environmental protection professional or even secondary school teacher, if you take also the teacher training module.