



BACHELOR OF SCIENCE DEGREE IN ENVIROMENTAL SCIENCES AND CIVIL PROTECTION



Degree Class: L-32

Duration: 3 years

ECTS credits: 180

Language: English

**Department of Life and
Environmental Sciences**

Director
Prof. Francesco Regoli

Location
Polo Monte Dago
Via Brecce Bianche
Ancona, Italy

Course Coordinator
Prof. Francesca Beolchini
f.beolchini@univpm.it

Teaching management office
didattica.scienze@univpm.it

International office
student.admission@univpm.it



COURSE DESCRIPTION

This BSc program is focused to meet the increasing demand for professionals trained in environmental and civil protection. Knowledge of basic sciences is integrated with in-depth skills on environmental and ecosystem functioning, global changes, hydrogeological, seismic and volcanic hazards, environmental pollution, monitoring techniques, environmental remediation. A specialized training in civil protection further characterizes the scientific preparation, in terms of forecasting, prevention and management of emergencies, which makes this course unique.

MAIN FEATURES OF THE PROGRAM

Innovative Teaching: the learning process combines lectures, laboratory works, field practice, site visits, group projects, lecture recordings.

Collaborative Environment: active and constant interaction between students, professors, and tutors for a supportive and stimulating educational experience.

High-Level Internships: partnerships with national and international universities, research institutions, regional and national authorities, public and private companies.

Top Researchers involved: professors are engaged in innovative research projects where students are involved.

CAREER OPPORTUNITIES

With specialized knowledge, our graduates will start a brilliant career in private/public organizations, to:

- assess the quality of environmental systems (field sampling, laboratory analyses, management and interpretation of environmental data)
- cooperate within environmental remediation task forces
- use IT and communication tools for civil and environmental protection
- draft and assess emergency plans for civil protection
- cooperate in environmental and civil protection emergencies
- coordinate environmental education projects

Graduates in Environmental Sciences and Civil Protection have access to first level Masters, Postgraduate Courses, and Master's Degree Courses. A MSc in Environmental Hazard and Disaster Risk Management has been active for years at the Polytechnic University of Marche, which represents the natural follow up for the graduates who intend to achieve their second level university studies.

COURSE ORGANIZATION

The program is divided into 2 cycles per year (from last week of September to mid-January and from mid-February to end of May), corresponding to the achievement of 180 ECTS in 3 years.

The program offers flexibility through elective courses/credits.

To complete the degree program, an internship is required as a practical experience carried out either in the university labs or in public/private organizations with collaborative agreements with the University.

Study Plan

1st year

Course	ECTS
Mathematics and statistics	9
General chemistry	7
Organic chemistry	5
Physics	8
Fundamentals of earth sciences	8
Fundamentals of zoology	6
Fundamentals of biology and environmental microbiology	12
• Fundamentals of biology	
• Environmental microbiology	
Elective course: Data management	3

2nd year

Course	ECTS
Fundamentals of botany	6
Geography of hazard, risk and disaster	7
Energy and environment	7
Fundamentals of ecology	8
Fundamentals of oceanography, meteorology and climatology	6
Ecotoxicology	6
Fundamentals of environmental geology	10
• Cartography	
• Geomorphology and hydrogeology	
Geographic information systems	6
Environmental laws	3

3rd year

Course	ECTS
Environmental physical-biological monitoring and lab applications	10
• Physical and biological monitoring	
• Biodiversity	
Environmental chemical monitoring and lab applications	11
Environmental recovery	12
• Applied ecotechnologies	
• Environmental remediation techniques	
Disaster preparedness	12
• Disaster law	
• Emergency management	
Elective courses (choose three from this list):	9
Chemical analysis of pollutants	
Start-up creation and business plan	
Intervention techniques during sanitary emergency Safety at work	
Internship	5
Final test	4



ADMISSION REQUIREMENTS

High-school diploma or an equivalent foreign qualification (i.e. conferred on completion of a minimum of 12 years of education).

Level of language proficiency required: English level B2. All details can be found here:

<https://www.international.univpm.it/english-language-requirement/>

Assessment test: a not selective entrance test will verify background knowledge in Mathematics, Physics, Biology, Chemistry

For the pre-evaluation of eligibility to the program candidates should apply here:

<https://www.international.univpm.it/international-admissions-ay-2025-26-final/>

Non-EU applicants residing outside Italy should complete the Pre-enrolment application on the University portal <https://www.universitaly.it/first-steps>

After completing the pre-enrolment application and obtaining validation from the University, candidates should apply for a student Visa at the Italian Embassy or Consulate in their country of residence.

All details regarding the pre-evaluation, entrance test and enrolling procedures are specified in the Teaching Regulation.

Find useful information at:

<https://www.orienta.univpm.it/en/discover-univpm/>



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