



**PERROTIS
COLLEGE**
A DIVISION OF THE
AMERICAN FARM SCHOOL

B.Sc. in Environmental Science



Curriculum

1st Year

- Calculus
- Climate Change throughout History
- General Physics
- Principles of Environmental Hydrology
- Learning Methods (1+2)
- Principles of Ecology
- Environmental Chemistry
- Research Methods & Statistics
- Energy resources management
- Environmental Microbiology
- Environmental Soil Science

2nd Year

- Sustainable Smart Cities & Living Environment
- Environmental Analytical Chemistry
- Environmental Ethics, Policy & Legislation
- Sustainable Design
- Marine Biology
- Circular Economy
- Environmental Impact Study
- Coastal Management
- Environmental Monitoring & Risk Assessment
- Environmental Technologies
- Atmospheric Science & Air Pollution
- Air, Water & Waste Water Treatment

3rd Year

- Dissertation
- Waste Management
- GIS in Agriculture & the Environment
- Environmental Toxicology
- Internship
- Environmental sustainability & integrated systems analysis
- Health Impact & Risk Assessment
- Environmental Field Studies
- Ecological Agriculture
- Current Issues

The **Bachelor of Science (B.Sc.) in Environmental Science** is an academic program focused on providing knowledge needed to address environmental issues. It embraces a holistic approach to sustainability to meet the ever-increasing need of environmental scientists caused by climate change cascade effects. By integrating various disciplines, students develop a profound understanding of environmental complexities, delving into the intricate interplay between ecological systems and human activities, preparing them to be at the forefront of driving positive change. The rigorous coursework in combination with the hands-on laboratory work and research with real-world experiences uniquely positions our graduates to address some of the biggest environmental challenges ensuring exceptional employability prospects.

Learning Outcomes

Graduates will be able to

- Demonstrate knowledge of the key areas of Environmental Science, such as Climate Change and Integrated Environmental Impact Analysis
- Understand the techniques used for environmental monitoring and the use of emerging technologies
- Use the methodologies for carrying out environmental risk analysis
- Develop a systems approach to understanding the present and past interactions between the processes operating in the lithosphere, cryosphere, hydrosphere, atmosphere and biosphere.
- Understand the continuously changing dynamics of three interacting systems: the geosphere, atmosphere and hydrosphere and the complex interactions among environmental systems over a range of timescales

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