Perrotis College

A division of the American Farm School

B.Sc. in Environmental Science

Curriculum

1st Year

- Environment and Climate Change
- Principles of Biology
- Basic Mathematics
- Introductory Composition
- Information System Skills
- English Language I
- Sustainability & Society
- Mediterranean Diet: Science & Culture
- Introduction to Information System
- Introduction to Academic Writing
- Public Speaking & Business Communication
- English Language II

2nd Year

- Calculus
- Climate Change throughout History
- General Physics
- Principles of Environmental Hydrology
- Learning Methods
- Principles of Ecology
- Environmental Chemistry
- Research Methods and Statistics
- Energy Resources Management
- Environmental Microbiology
- Environmental Soil Science

3rd Year

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

4th Year

- GIS in Agriculture & the Environment
- Environmental Toxicology
- Ecological Agriculture
- Waste Management
- Environmental Sustainability and Integrated Systems
- Health Impact and Risk Assessment
- Internship
- Current Issues
- Environmental Field Studies
- Senior Year Thesis

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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