



Foundations Environmental Science

This course is an elective designed to be taken by students who have successfully completed biology. It is an elective designed to be taken by students who have successfully completed biology. Environmental science is an interdisciplinary science that utilizes scientific principles, concepts and methodologies to understand the interrelationships of the natural world. The course focuses on identifying and analyzing environmental problems, evaluating relative risks associated with these problems and examining alternative solutions that aim at the goal of sustainability.

Course description

- Unit 1:
 - The Nature of Science
 - Economics of Environmental Issues
 - USA Environmental Issues
 - International Issues
- Unit 2:
 - Studying Ecology
 - Biotic and Abiotic Factors
 - Habitat
 - Describing Populations with Types of Distribution
 - Age Structures and Sex Ratios
 - Population Growth Along with Immigration and Emigration
 - Also included in Biotic Potential
 - Species Interactions in Environmental and Ecological Communities
- Unit 3:
 - Aquatics: Ecosystem and Water Quality
- Unit 4:
 - Biodiversity and All its Benefits Along with Biodiversity Loss and Conclusion of the Unit Protecting Biodiversity and Its Importance
- Unit 5:
 - All Issues, Pros & Cons and Examples of Non-Renewable & Renewable Resources
- Unit 6:
 - Human Population Growth Along with Predicting Population Growth And People and How They Affect Their Environment
 - Environment Completing with Natural Disasters
 - Land Use and Urbanization along with Sprawl and Sustainable Cities
- Unit 7:
 - Forestry Management and Resource Management
 - Soil Conservation Efforts Along with Agricultural Practices including;
 - Harming pollinators and food productions along with pros and cons of GMO's
 - Concluding with Mining and Mining Impacts and Regulations