

**Environmental Science 110/Agricultural Sciences 110
Spring 2013**

Instructor Dr. Baldev Singh
Contact Information **Email:** baldev.singh@imperial.edu
Office Hours: None
Lecture Hours: 3 **Credits: 3**
Days & times **Monday and Wednesday: 6:30-7:55 pm**
CRN 20836/ 20838

Required Text **Environmental Science** – Custom Edition for Imperial Valley College.

Course Description This course is designed to provide students with an overview and understanding of the interrelationships between humans and the natural environment. The class will focus on basic concepts of science and ecosystem theory, human impacts on the air, water, and land, environmental problems faced by the Imperial Valley that have regional and global consequences, and some of the proposed solutions.

Course Objectives Student will learn:

- The concept of sustainability in environmental field;
- Interactions between human populations and environment;
- The basic concepts of science and ecosystem;
- To identify local and global environmental challenges;
- The environmental impacts of human population growth and material consumption nationally and internationally;
- The importance of protecting wildlife and habitats and conserving biodiversity;
- The hydrological cycle and identify ways that humans negatively impact the cycle;
- The quality of fresh water globally and identify major sources of water pollution;
- The state and federal laws and regulatory agencies that govern environmental concerns of air, water, land, human health, and chemical hazards;
- To identify common human health effects of environmental exposures;
- Agricultural practices in the Imperial Valley with regard to the following concepts: soil characteristics, use of irrigation, the benefits and drawbacks of fertilizer use and pest control, the environmental impacts in air, soil, and water, and the economic impact regionally and nationally;
- To identify the major sources of air pollution locally and nationally;
- To recognize the benefits and environmental impacts of fossil fuels and describe alternatives to its use;
- To recycle materials to eliminate environment pollutions/impacts;
- To manage solid waste by source reduction to recycling;
- To identify solutions to local and global environmental problems;

General Expectations Students must comply with all rules and regulations of Standards of Student Conduct outlined in the Imperial Valley College General Catalog. No food or drinks are allowed in classroom.

