

ENVS 1126: Introduction to Environmental Sciences (CEVS 1103)

Course Description:

Essential principles of environmental sciences; comprehensive and fundamental understanding of sound science, stewardship, and sustainability in environmental sciences; interactions and relations between humans and earth; an up-to-date look at today's global, national, and regional environmental issues

Course/Unit Credit:

3 credit hours; 1 Carnegie Unit

High School Course Code:

150914 Environmental Science: DE – CEVS 1103 Environmental Science

Primary Textbook:

Richard T. Wright & Dorothy F. Boorse

Environmental Science, Toward a Sustainable Future. Edition 13e, Pearson Education, Inc. (2016)

Learning Outcomes:

- 1) Demonstrate knowledge of a broad survey in the discipline, including underlying principles that govern the natural world.
- 2) Demonstrate the ability to design and test a hypothesis by experimentation or other appropriate techniques.
- 3) Demonstrate the ability to use inductive and deductive reasoning to understand scientific phenomena.
- 4) Demonstrate an ability to relate the field of study to other fields in the Natural Sciences.

Units/Topics:

- Science and the Environment
- Economics, Politics, and Policy
- Basic Needs of Living Things
- Populations and Communities
- Ecosystems
- Biodiversity
- Ecosystems Restoration
- Human Population
- Population and Development
- Water
- Soil
- Food
- Energy and Sustainability
- Energy From Fossil Fuels
- Nuclear Power
- Renewable Energy
- Global Climate Change
- Pests and Pest Control; Environmental Health
- Atmospheric Pollution
- Water Pollution
- Municipal Solid Waste
- Hazardous Waste
- Environmental Justice