

PUB 165: ENVIRONMENTAL MANAGEMENT

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Strongly Recommended:	PUB 150.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter, Pass/No Pass

Catalog Course Description

This course is an overview of environmental issues in a municipal setting. Topics include water quality, watershed management, integrated waste management, air pollution control, regulatory compliance, sustainability, and related issues. 54 lecture hours.

Course Objectives

- Develop a program that would reduce green house gases, choose most appropriate and cost effective methods, technologies, and products
- Calculate cost effectiveness of environmental technologies, products, and methods, and evaluate appropriations to specific projects
- Identify the various regulatory agencies and explain their authority and purview as regulators in the Public Works industry
- List and define various pesticides and explain the proper ways to use, store and clean up
- Identify and describe operational procedures, including examples of Best Management Practices

Major Course Content

1. Water
 - a. Storm Water
 - i. Best Management Practices
 - ii. National Pollution Discharge Elimination System (NPDES)
 - iii. Catch Basins
 - iv. Watershed Management
 - v. Non Point Source Pollution
 - b. Drinking Water
 - i. Contaminants
 - ii. Sources and Protection of Sources
 - iii. Distribution
 - iv. Treatment
 - v. Conservation - Reducing Demand
 - c. Waste Water
 - i. Black Water / Gray Water
 - ii. Levels of Treatment
 - iii. Public Awareness
2. Earth
 - a. Best Management Practices
 - b. Integrated Waste Management
 - c. Recycling
 - d. Graffiti Removal
 - e. Hazardous Materials
 - f. Illegal Dumping
 - g. New Technologies
 - h. "Build It Green" - Products and Methods
 - i. Green Purchasing
3. Air
 - a. Best Management Practices
 - b. Light Pollution
 - c. Noise Pollution
 - d. Street Sweeping
 - e. Alternative Fuels
 - f. Traffic Control
 - g. SCAQMD Rules
 - i. Assembly Bill 32
4. Other
 - a. Green Products
 - b. Permitting and Regulations
 - c. Regulatory Agencies

Suggested Reading Other Than Required Textbook

Environmental Protection Agency at www.epa.gov; Contractors Guide to Green Building Construction: Management, Project Delivery, Documentation, and Risk Reduction by Thomas Glavinich; Maintenance Superintendents' Association website: www.gomsa.net

Examples of Required Writing Assignments

Write a cost comparison of "green" products used for street construction and analyze their compliance to current environmental legislation.

Examples of Outside Assignments

Research new products and methods used in street construction and maintenance that are considered sustainable.

Instruction Type(s)

Lecture, Online Education Lecture