

# Broward Community College Course Outline

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STATUS:   A  

COMMON COURSE NUMBER:   EVR 1868  

COURSE TITLE:   Environmental Regulations II  

CREDIT HOURS:           3          

CONTACT HOURS BREAKDOWN:

Lecture/Discussion	<u>          48          </u>
Lab	<u>          00          </u>
Other	<u>          00          </u>
Contact Hours/Week	<u>          3          </u>

CATALOG COURSE DESCRIPTION:

Prerequisite:   EVR 1862

Corequisite:     NONE

This course will provide environmental technologists in the hazardous materials and water/wastewater areas with an understanding of the regulations and compliance methods specific to their areas. Topics to be covered will include OSHA, DOT, RCRA, CERCLA, TSCA, FIFRA, EPA, superfund, and clean air, land, and water issues.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES:

1. Overview of Hazardous Material and Water/Wastewater Regulations
2. Identification and listing
3. Regulations and Compliance
4. Hazardous material Regulations
5. Water and Wastewater Regulations

## **I. Course Overview:**

Upon successful completion of this course, the students should be able to demonstrate an understanding of the regulations that apply to the hazardous materials and water/wastewater areas; and their application and methods needed to ensure compliance.

## **II. Units:**

### **Unit 1. Overview of hazardous Materials and Water/Wastewater Regulations.**

#### General Outcome:

1.0 The students should be able to demonstrate an understanding of the background and purpose of the pertinent regulations in the hazardous materials and water/wastewater areas.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Explain the purpose of the Occupational Safety and Health Administration (OSHA).
- 1.2 Explain the purpose of the regulations under the Department of Transportation (DOT).
- 1.3 Explain the organization and function of the Environmental Protection Agency (EPA).
- 1.4 Explain the purpose of the Clean Water Act.
- 1.5 Explain the purpose of the Safe Drinking Water Act.

## Unit 2. Identification and Listing

### General Outcome:

2.0 The students should be able to describe the Department of Transportation (DOT) rules and procedures associated with the labeling and transportation of hazardous materials.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 List and describe the properties of the general categories of hazardous materials as defined by the DOT.
- 2.2 List the general requirements for displaying markings on hazardous materials.
- 2.3 List the information required on a dangerous cargo manifest.
- 2.4 Describe the rules that apply to motor carriers engaged in the transportation of hazardous materials.
- 2.5 Describe the regulations governing the loading, unloading and handling of hazardous materials shipped by train and aircraft.

### Unit 3. Regulations and Compliance

#### General Outcome:

3.0 The students should be able to demonstrate an understanding of the record keeping and reporting requirements for hazardous materials and water/wastewater.

#### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Describe the primary record keeping and reporting requirements for hazardous materials.
- 3.2 List required record keeping in a water/wastewater treatment facility.
- 3.3 Describe the permit process and prepare a permit application.
- 3.4 List and describe the principle objectives of the hazardous waste manifest.
- 3.5 Prepare a Uniform Hazardous Waste Manifest.
- 3.6 List and describe TSD regulations and standards.
- 3.7 Describe the phases and enforcement options of RCRA.

## Unit 4. Hazardous Material Regulations

### General Outcome:

4.0 The students should be able to describe various hazardous materials regulations including those of EPA, FIFRA, and TSCA.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Describe the organization and function of the RSPA.
- 4.2 Describe the handling of pesticides under FIFRA.
- 4.3 Describe the handling of materials under TSCA.
- 4.4 List and describe the conditions a state must satisfy before it can receive EPA approval.
- 4.5 List the total occupational dose standards of radiation allowable.
- 4.6 List the precautionary procedures for radiation exposure required in restricted areas.
- 4.7 Demonstrate an awareness of issues regarding asbestos identification and abatement.
- 4.8 Summarize Florida's hazardous regulations and local regulations.

## Unit 5. Water and Wastewater Regulations

### General Outcome:

5.0 The students should be able to describe local, state, and federal water and wastewater regulations.

### Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 5.1 Discuss pertinent areas of the Clean Water Act.
- 5.2 Discuss issues related to water supply and demand.
- 5.3 Discuss issues related to water treatment.
- 5.4 Discuss water quality standards.
- 5.5 Describe applicable standards under NPDS.