

**ALLAN HANCOCK COLLEGE
COURSE OUTLINE**

DEPARTMENT: FIRE, SAFETY & EMS
PREFIX & NO.: ENVT 158
CATALOG TITLE: Hazardous Waste Minimization and Emissions Reduction
SCHEDULE TITLE: HAZ Wastes and Emissions Reduction
UNITS: 1
TOTAL LECTURE HOURS: 16
TOTAL NUMBER OF WEEKS: (if other than 16) 2
GRADING OPTION: Credit/No Credit Option

CATALOG DESCRIPTION

Presents principles of waste reduction and cleaner production processes to reduce chemical and raw material losses, manufacturing costs, and waste generation. Provides students with practical techniques for initiating or expanding pollution prevention programs.

SCHEDULE DESCRIPTION

Principles of waste reduction and cleaner production processes to reduce chemical and raw material losses, manufacturing costs, and waste generation. Presents practical techniques for initiating or expanding pollution prevention programs.

COURSE GOALS To encourage and enable students to:

1. understand the system of identification of industrial emissions.
2. understand the system of source reduction and emission reduction techniques.

INSTRUCTIONAL OBJECTIVES At the end of the course, the student will demonstrate the ability to:

1. identify specific industrial-process hazardous wastes and emissions.
2. develop a prioritization system for industrial emissions reduction.
3. implement industrial emission reductions through cooperative "buy-in".

COURSE OUTLINE

	<u>HOURS</u>
1. Introduction into process evaluation	2
2. Emission identification	6
3. Source reduction techniques	2
4. Hazardous waste reduction	2
5. Process restraints	2
6. Process owner "buy-in"	2

APPROPRIATE READINGS (other than textbook)

Hazardous Chemical and the Right to Know. Harris C. and Scott Harvey. 1993. Arcarta Graphics/Kingsport.

ASSIGNMENTS

1. Various short writing assignments.

2. Reading and study guides.

Sample Writing Assignment:

Select a specific industrial process and create a block diagram of the process.

EVALUATION

One final exam consisting of multiple choice and short answer questions.

Sample Essay Question:

Explain the basic philosophy of emissions reduction within industry.

TEXTS AND SUPPLIES

Adopted Text: None

Other Materials: None