

NEW/MODIFIED/ACTIVATED/INACTIVATED COURSE

Division: Health & Public Services

Date 9/17/98

Course Designator: EHMT 100

Title: Introduction to Environmental Hazardous Materials

Same as (other course(s) designator(s),

Effective Catalog Year: 1999-2000

Faculty Originator: Robert Evangelista

New Course []

Course Classification Code: I2

Course Modification* [✓]

SAM Classification Code: D

Inactivate Course []

Activate Course []

Requires Board Approval:

Units of Credit From: To:
Lecture Hours From: To:
Laboratory Hours From: To:
Degree Status From: To:

Prerequisite [] (attach change)

Corequisite [] (attach change)

Course Designator: []

From:

To:

Board Approval Not Required:

Course Description [✓]

Grading Basis []

Recommended Preparation []

Other: Change Sam Code from "C" to "D"

Title: [✓] Introduction to Environmental

From: Hazardous Materials

To: Introduction to Environmental
Technology

Rationale for Modification or Activation or Inactivation:

The new title best describes the course content and objectives.

***NOTE: Attach new or modified course outline for all course modifications.**

Division Dean

Date

Vice President for Academic Affairs

Date

Academic Senate Vice President

Date

Instructional Office Use Only:

Approved by:

C & I Sub A

Date _____

C & I Committee

Date _____

Governing Board

Date _____

Catalog Number

Date _____

**SOUTHWESTERN COLLEGE
COURSE OUTLINE**

Division: **Health & Public Services**

Origination Date: 11/90

Modification Date: 9/98

Effective Date: **Fall 1999**

Course Designator
and Number

Title

Units

Lec

Lab.

EHMT 100

Introduction to Environmental Technology

3

3

Same as (other course(s) designator(s),

Grading Basis: Grading Scale; Credit/No Credit option available

Prerequisite:

Corequisite:

Recommended Preparation:

Course Description & Scope: (50 words or less)

Designed to give students a general overview of the environmental ~~hazardous materials~~ technology areas. History of pollution leading to current legislation, environmental effects of pollution, **current waste treatment techniques**, and an overview of the regulatory framework will be presented. Career opportunities in the areas of ~~handling and management~~ of hazardous substances and **pollution control** will be discussed. **Field trips will provide hands-on experience to address environmental problems.** [CSU]

Measurable Course Objectives and Minimum Standards, as Determined by Standards set by the instructor, at 70% Proficiency for a Grade of "C":

1. Student will, through a written exam, interpret the numbering system used for federal and state regulations in the environmental field.
2. Student will, through a written exam, explain the organization of both federal and state regulations for the environmental field.
3. Student will, through a written exam, explain the processes by which both federal and state laws and regulations are made.
4. Student will, through a written exam, discuss the historical perspective from which present federal and state regulations originated.
5. Student will, through a written exam, specify the key statutes and regulations which govern air, water, and soil cleanliness.
6. Student will, through a written exam, specify the key statutes which address the health of both employees and the general public.
7. Student will, through a written exam, explain how to keep current on changing environmental regulations.
8. Student will, through a written exam and a report, read and interpret laws and regulations governing hazardous materials.

9. Student will, through a written exam, locate sources for and explain the liabilities and penalties for not following environmental regulations.
10. Student will, through a written exam and report, discuss the public sensitivities to environmental problems and regulations.
11. Student will, through a written exam, determine which regulatory agencies (federal, state, or local) have jurisdiction for specific environmental problems.
12. Student will, through a written exam, explain how to contact support services for additional information about environmental problems.
13. Student will, through a written exam, distinguish between regulations and policies of organizations.
14. Student will, through a written exam and report, specify the sources of current information in the environmental field.

Core Content to be Covered in all Sections:

1. Approximate 9 % of course
Past and current concerns of the environmental conservation movement, and the scope of the environmental protection and worker health industry
2. Approximate 9 % of course
Legal definitions of hazardous materials and an introduction to their physical, chemical and biological interactions.
3. Approximate 9 % of course
OSHA, and the hazard communication and hazardous site worker requirements
4. Approximate 11 % of course
Air, air pollution, the Clean Air Act, and air toxics regulations
5. Approximate 13 % of course
Surface and ground water quality and sources, geological and hydrological concepts, clean Water Act, monitoring, sampling, analyzing, and treating water
6. Approximate 10 % of course
Hazardous materials and wastes laws: Federal, including RCRA, CERCLA, DOT, FIFRA, and TOSCA. State, including Toxic Substances Community Control, Right to Know, AB 2185/s187, and Proposition 65. Local ordinances
7. Approximate 9 % of course
Government processes: legislation, regulation, jurisdiction, enforcement terminology
8. Approximate 9 % of course
Hazardous materials in industry: sources, permitting, licensing, fees, treatment, storage, and transportation/disposal of wastes
9. Approximate 9 % of course
Remedial investigation/feasibility studies
10. Approximate 9 % of course
Career opportunities, competencies and skills needed, licenses, certifications, and the job market
11. Approximate % of course: Supplemental

NOTE: For Specific Details, see Instructor's Syllabus.

Method of evaluation to determine if objectives have been met by students:
(Check all that apply)

Exams:

Essay	<input checked="" type="checkbox"/>	Class Activity	<input checked="" type="checkbox"/>	Written Assignments	<input checked="" type="checkbox"/>
Problem Solving Exercise	<input type="checkbox"/>	Skill Demonstration	<input type="checkbox"/>	Lab Activity	<input type="checkbox"/>
Objective Test	<input checked="" type="checkbox"/>	Oral Assignments	<input checked="" type="checkbox"/>	Quizzes	<input type="checkbox"/>

Other

Instructional Methodology: (Check all that apply)

Lecture	<input checked="" type="checkbox"/>	Demonstration	<input type="checkbox"/>	Discussion	<input checked="" type="checkbox"/>
Audiovisual	<input checked="" type="checkbox"/>	Individual Assistance	<input type="checkbox"/>	Group Activity	<input type="checkbox"/>
Computer Assisted Instruction	<input type="checkbox"/>				

Requires a minimum of three (3) hours of work per unit, including class time

Required and Major Optional Reading(s), Including Textbook(s) and Software: (Author-last name, first name. Title.
Location: Publisher, Year)

Griffin, Roger. Principles of Hazardous Materials Management. Lewis Publishing, 1989.