

# NEW/MODIFIED/ACTIVATED/INACTIVATED COURSE

Division: **School of Technology of Human Services**

Date **3/15/99**

Course Designator: **EHMT 150B**

Title: **Waste Management Applications II**

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

Effective Catalog Year: **1999-2000**

Faculty Originator: **Robert Evangelista**

New Course [  ]

Course Classification Code: **I3**

Course Modification\* [  ]

SAM Classification Code: **B**

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)

Co-requisite [  ] (attach change)

Course Designator: [  ]

From: \_\_\_\_\_

To: \_\_\_\_\_

Board Approval Not Required:

Course Description [  ]

Grading Basis [  ]

Recommended Preparation [  ]

Other: \_\_\_\_\_

Title: [  ]

From: \_\_\_\_\_

To: \_\_\_\_\_

Rationale for Modification or Activation or Inactivation:

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

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\_\_\_\_\_  
Division Dean 3/15/99  
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: \_\_\_\_\_

# GENERAL INFORMATION

- A. Need for course  
Working adult students and U.S. Navy personnel need courses that are of shorter duration to achieve completion due to changing personal schedules and deployments. This course is the second half of EHMT 150 and is the second course of a four-course series.
- B. Specific student population for whom this course is designed  
Working adult students, U.S. Navy personnel, and general Environmental Technology students.
- C. Parallel courses offered elsewhere in: **(MUST BE COMPLETED)**
- (a) Community Colleges
- | Course Title | College |
|--------------|---------|
|--------------|---------|
- (b) Four-year Institutions
- | Course Title                                 | College/University |
|--|--------------------|
| ERM 411, Environmental Law I                 | CSU Bakersfield    |
| ERM 412, Environmental Law II                | CSU Bakersfield    |
| ENS 020, Principles of Env. Law & Regulation | UC Riverside       |
| ESP 161 Environmental Law                    | UC Davis           |
- For vocational courses only:  
Recommended by Advisory Committee: Yes [ ] No [  ]
- D. Scheduling Characteristics:  
Fall [ ] Spring [ ] Variable [  ]
- E. Check One: Degree applicable [  ] Non Degree applicable [ ]
- F. Course Challengeable by Exam: Yes [  ] No [ ]  
If no, rationale:
- G. Graduation Requirements  
Recommended for:
1. Plan A--General Education Requirements for the Associate Degree Under [ ]
  2. Plan B--General Education Breadth Requirements, California State University Under [ ]
  3. IGETC UC/CSU General Education Breadth Requirements, University of California Under [ ]
- H. Transferability
1. Recommended for California State University (course number must be three digits) [  ]
  2. Recommended for University of California (course number must be three digits) [  ]
  3. Non Transferable (course number must be two digits) [ ]
  4. 295 Course Transferable [ ] Non Transferable [ ]
- I. FSA (Faculty Service Area Number) 029

# SOUTHWESTERN COLLEGE COURSE OUTLINE

Division: **School of Technology  
& Human Services**

Origination Date: **3/15/99**

Modification Date:

Effective Date: **Spring 2000**

| Course Designator<br>And Number | Title                                   | Units    | Lec        | Lab        |
|---------------------------------|---|----------|------------|------------|
| <b>EHMT 150B</b>                | <b>Waste Management Applications II</b> | <b>2</b> | <b>1.5</b> | <b>1.5</b> |

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

Grading Basis: **Grading scale; Credit/No credit option available**

Prerequisite:

Co-requisite:

Recommended Preparation:  
**EHMT 100 and Chem 100**

Course Description & Scope: (50 words or less)

**Overview of Federal and California Environmental Waste Regulations: Air pollution, wastewater, and abandoned waste site (Superfund). Emphasis is placed on air emissions; wastewater effluents; and site investigation, sampling, and remediation. Laboratory portion provides hands-on applications. (Not open to students with credit in EHMT 150.) [CSU; UC]**  
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, identify current statutes and regulations concerning air and water pollution, and abandoned hazardous waste sites (Superfund sites).
2. Student will, through a written exam, read and interpret current laws and regulations, and the liabilities and penalties for noncompliance.
3. Student will, through a written exam, determine regulatory jurisdiction (federal, state, or local agencies).
4. Student will, describe how to make proper contact with information support services.
5. Student will, through a written exam, distinguish between regulations and organizational policies.
6. Student will, through written exam and/or laboratory exercises, demonstrate proper procedures to obtain air emissions and wastewater discharge permits.

7. Student will, through written exam, demonstrate methods for the preliminary assessment and site inspection (PA/SI) of abandoned waste sites.
8. Student will, through written exam, describe the fundamentals of the remedial investigation and feasibility study (RI/FS) process and Superfund Accelerated Cleanup Model (SACM) process for abandoned waste sites.
9. Student will, through written exams and laboratory exercises, demonstrate knowledge of site sampling methods and technologies.
10. Student will, through written exam, distinguish between various site remediation technologies and their applications.

Core Content to be Covered in all Sections:

1. Approximately 11 % of course  
**Introduction and Clean Water Act**
2. Approximately 11 % of course  
**Clean Air Act**
3. Approximately 11 % of course  
**Comprehensive Environmental Response, Compensation and Liability Act (CERCLA); Superfund Amendments and Reauthorization Act (SARA); National Contingency Plan, and the California Superfund laws.**
4. Approximately 8 % of course  
**Preliminary Assessment and Site Inspection (PA/SI)**
5. Approximately 8 % of course  
**Standard operating procedures (SOPs) for site sampling and sampling technologies**
6. Approximately 8 % of course  
**Remedial investigation and feasibility study (RI/FS) process and Superfund Accelerated Cleanup Model (SACM) Process**
7. Approximately 32 % of course  
**Remedial technologies**
8. Approximately 11 % of course  
**Student assessments**
9. Approximately     % of course
10. Approximately     % 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 type="checkbox"/>            | Class Activity      | <input checked="" type="checkbox"/> | Written Assignments | <input type="checkbox"/>            |
| Problem Solving Exercise | <input checked="" type="checkbox"/> | Skill Demonstration | <input checked="" type="checkbox"/> | Lab Activity        | <input checked="" type="checkbox"/> |
| Objective Test           | <input checked="" type="checkbox"/> | Oral Assignments    | <input type="checkbox"/>            |                     |                                     |
| Quizzes                  | <input checked="" type="checkbox"/> |                     |                                     |                     |                                     |

Other

Instructional Methodology: (Check all that apply)

|                               |                                     |                       |                                     |                |                                     |
|-------------------------------|-------------------------------------|-----------------------|-------------------------------------|----------------|-------------------------------------|
| Lecture                       | <input checked="" type="checkbox"/> | Demonstration         | <input checked="" type="checkbox"/> | Discussion     | <input checked="" type="checkbox"/> |
| Audiovisual                   | <input checked="" type="checkbox"/> | Individual Assistance | <input checked="" 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)

**Dufor, J. T. California Compliance Manual. California Chamber of Commerce, latest edition.**