

ENVIRONMENTAL HAZARDOUS MATERIALS TECHNOLOGY (EHMT)

EHMT 99

INTRODUCTION TO WORKERS' COMPENSATION 3 UNITS

Pass/No Pass or Grade is Allowed

Recommended Preparation: EHMT 260 or equivalent; RDG 158 or equivalent or through the Southwestern College multiple measures placement processes.

Lecture 3 hours

Offered: ALL

Teaches students the basics of the workers' compensation process and how to manage a workers' compensation claim, from first report to closure. [D]

EHMT 100

INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY 4 UNITS

Pass/No Pass or Grade is Allowed

Lecture 4 hours

Offered: FALL, SPRING

Emphasizes discussions of human impacts on the natural environment, environmental science and technology, and important environmental regulations. Presents the history of environmental pollution and focuses on legislation, environmental effects, waste treatment techniques, and pollution prevention measures. Includes an introduction to the scientific method using water quality analyses. [D; CSU; UC]

EHMT 110

WASTE STREAM GENERATION AND REDUCTION AND TREATMENT 3 UNITS

Pass/No Pass or Grade is Allowed

Lecture 3 hours

Offered: ALL

Industrial processes and generation of waste streams. Study various waste streams (air, water, and solids) examining the changes that occur through the industrial processes and understanding the material balance concept. Includes discussion of applicable technology. Stresses the fundamentals of waste minimization and treatment concepts. Field trips will show waste treatment technologies in action. [D; CSU]

EHMT 130

INTRODUCTION TO TOXICANTS 3 UNITS

Pass/No Pass or Grade is Allowed

Recommended Preparation: BIOL 190 or equivalent.

Lecture 3 hours

Offered: SPRING

Introduces acute and chronic health effects produced by exposure to chemical, physical, and biological agents associated with industrial operations, waste disposal, and remediation sites. Includes topics on routes of entry, risk management, permissible exposure limits, control methods, Safety Data Sheets, epidemiology, industrial hygiene, and occupational health and safety. [D; CSU]

EHMT 150

WASTE MANAGEMENT APPLICATIONS 5 UNITS

Pass/No Pass or Grade is Allowed

Recommended Preparation: EHMT 100 or equivalent; CHEM 100 or equivalent.

Lecture 5 hours

Offered: ALL

Overview of hazardous materials and hazardous waste regulations for industrial facilities. Emphasizes OSHA Hazard Communication; the cradle-to-grave waste management process; transportation of hazardous materials; site investigation, waste identification and remediation; permitting; underground tanks; air pollutants and regulations; asbestos, Prop 65; infectious and medical waste. Class provides hands-on experience on interpreting Safety Data Sheets (SDS), preparing a hazardous waste manifest, shipping hazardous materials, storage container management, sampling procedures and waste compatibility determination. [D; CSU]

EHMT 200

ENVIRONMENTAL MATERIALS MANAGEMENT APPLICATIONS 4 UNITS

Pass/No Pass or Grade is Allowed

Recommended Preparation: EHMT 100, EHMT 130, or equivalent; CHEM 100 or equivalent.

Lecture 3 hours, laboratory 3 hours

Offered: ALL

Overview of hazardous materials regulations including emphasis on the transportation of hazardous materials, OSHA Hazard Communication, Community Right-to-Know, underground tanks, asbestos, Proposition 65, air toxic, and medical and infectious waste regulations. The laboratory will focus on shipping of hazardous materials; interpreting MSD's; and planning and reporting functions. [D; CSU]

EHMT 201

INTRODUCTION TO INDUSTRIAL HYGIENE AND OCCUPATIONAL HEALTH 4 UNITS

Pass/No Pass or Grade is Allowed

Recommended Preparation: EHMT 100 or equivalent.

Lecture 3 hours, laboratory 3 hours

Offered: FALL, SPRING

Anticipation, recognition, evaluation and control of biological, chemical, and physical hazards in the workplace. Introduction to development of industrial hygiene, occupational health and safety as a professional discipline. Provide student with an understanding of basic physiological processes and the effects caused by occupational exposure to hazards. Students will survey various occupational health and safety programs and government regulations. Familiarize students with industrial hygiene monitoring and sampling techniques for airborne contaminants, noise, heat, radiation, and illumination. [D; CSU]

EHMT 230
SAFETY AND EMERGENCY RESPONSE
4 UNITS

Pass/No Pass or Grade is Allowed
Recommended Preparation: EHMT 130 or equivalent.
Lecture 3 hours, laboratory 3 hours
Offered: FALL, SPRING
Emphasizes occupational health and safety "General Site Workers" requirements in accordance with California and Federal Regulations. Covers topics in hazardous waste emergency response and handling, site assessment and mitigation, site safety plans, respiratory protection and fit testing, sampling procedures, hazardous materials identification, hazard communication, confined space awareness, and other related subjects. Satisfies requirements for 40-hour HAZWOPER training upon completion of the course with a grade of "C" or better. [D; CSU]

EHMT 240
INTRODUCTION TO BIOSAFETY
3 UNITS

Grade Only
Recommended Preparation: BIOL 100 and BIOL 101 or EHMT 100 or equivalent.
Lecture 3 hours
Offered: ALL
Introduces the microbiology, threat assessment, and mitigation of biological agents and emerging infectious diseases. Examines current biosafety issues and regulations and identifies what works, what doesn't, and why this issue is important to everyone. Introduces policies and regulations surrounding select agents and toxins, as well as institutional biosecurity, and assesses the risks and threats of handling these biological agents. [ND; CSU]

EHMT 260
OCCUPATIONAL SAFETY
3 UNITS

Grade Only
Recommended Preparation: EHMT 100 and EHMT 130, or equivalent.
Lecture 3 hours
Offered: FALL, SPRING
Covers the laws and regulations pertaining to industrial occupational safety, the history of occupational safety leading to current legislation, and the development of the Occupational Safety and Health Administration (OSHA). Upon completion with a grade of "C" or better, student will receive an OSHA 30-hour certificate. [D; CSU]

EHMT 261
OCCUPATIONAL SAFETY MANAGEMENT
3 UNITS

Pass/No Pass or Grade is Allowed
Recommended Preparation: EHMT 100 and EHMT 130, or equivalent.
Lecture 3 hours
Offered: FALL, SPRING
Stresses management's responsibility for safety, hazard, communication, machine and mechanism safety, and accident investigation. Additional topics include fire protection, radiation, electric systems, and industrial biological agents. [D; CSU]

EHMT 290
ENVIRONMENTAL TECHNOLOGY COOPERATIVE WORK EXPERIENCE I
2-4 UNITS

Grade Only
Recommended Concurrent Enrollment: Enrollment in one other class directly related to the Environmental Hazardous Materials Technology major in order to apply learned theory in a practical hands-on setting through an internship class.
Limitation on Enrollment: Declared Environmental Hazardous Materials Technology major.
Laboratory 12 hours
Offered: FALL, SPRING
Introduces principles and skills acquired in the Environmental Hazardous Materials Technology majors to on-the-job assignments. One unit of credit is granted for every 54 hours of work experience. Credit may be accrued at the rate of 2 to 4 units per semester for a maximum of fourteen units. The job supervisor and instructor will evaluate each student's job performance. [D; CSU]

EHMT 291
ENVIRONMENTAL TECHNOLOGY COOPERATIVE WORK EXPERIENCE II
2-4 UNITS

Grade Only
Recommended Concurrent Enrollment: Enrollment in one other class directly related to the Environmental Hazardous Materials Technology major in order to apply learned theory in a practical hands-on setting through an internship class.
Prerequisite: EHMT 290 or equivalent.
Limitation on Enrollment: Declared Environmental Hazardous Materials Technology major.
Laboratory 12 hours
Offered: FALL, SPRING
Applies beginning-level principles and skills acquired in the Environmental Hazardous Materials Technology majors to on-the-job assignments. One unit of credit is granted for every 54 hours of work experience. Credit may be accrued at the rate of 2 to 4 units per semester for a maximum of fourteen units. The job supervisor and instructor will evaluate each student's job performance. [D; CSU]

EHMT 292
ENVIRONMENTAL TECHNOLOGY COOPERATIVE WORK EXPERIENCE III
2-4 UNITS

Grade Only
Recommended Concurrent Enrollment: Enrollment in one other class directly related to the Environmental Hazardous Materials Technology major in order to apply learned theory in a practical hands-on setting through an internship class.
Prerequisite: EHMT 291 or equivalent.
Limitation on Enrollment: Declared Environmental Hazardous Materials Technology major.
Laboratory 12 hours
Offered: FALL, SPRING
Provides intermediate-level principles and skills acquired in the Environmental Hazardous Materials Technology majors to on-the-job assignments. One unit of credit is granted for every 54 hours of work experience. Credit may be accrued at the rate of 2 to 4 units per semester for a maximum of fourteen units. The job supervisor and instructor will evaluate each student's job performance. [D; CSU]

EHMT 293
ENVIRONMENTAL TECHNOLOGY COOPERATIVE WORK EXPERIENCE IV
2-4 UNITS

Grade Only

Recommended Concurrent Enrollment: Enrollment in one other class directly related to the Environmental Hazardous Materials Technology major in order to apply learned theory in a practical hands-on setting through an internship class.

Prerequisite: EHMT 292 or equivalent.

Limitation on Enrollment: Declared Environmental Hazardous Materials Technology major.

Laboratory 12 hours

Offered: FALL, SPRING

Covers advanced-level principles and skills acquired in the Environmental Hazardous Materials Technology majors to on-the-job assignments. One unit of credit is granted for every 54 hours of work experience. Credit may be accrued at the rate of 2 to 4 units per semester for a maximum of fourteen units. The job supervisor and instructor will evaluate each student's job performance. [D; CSU]

EHMT 299
INDEPENDENT STUDY
1-3 UNITS

Pass/No Pass or Grade is Allowed

Limitation on Enrollment: Eligibility for independent study.

Lecture 3 hours

Offered: ALL

Individual study or research in some area of environmental hazardous materials, which is of particular interest to the student and not included in regular courses of the college. [D; CSU]