Federal construction safety standards; workplace inspection; interfacing with compliance officials; vertical and horizontal standards; and common construction industry compliance issues.

CSU

150 HAZARDOUS WASTE MANAGEMENT APPLICATIONS 4 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
4 hours lecture
Overview of hazardous waste regulations with an emphasis on generator compliance, site investigation, remediation, permitting, enforcement, and liability. Explains the hazardous waste regulatory framework and the types of environmental resources available; develops research skills in the hazardous waste area; and provides hands-on application of the regulations at the technician level. Topics include proper methods of preparing a hazardous waste manifest, labeling of storage containers, sampling and analysis, preparing a Phase I Environmental Audit, and selecting environmental consultants.

CSU

200 HAZARDOUS MATERIALS MANAGEMENT (HMM) APPLICATIONS 4 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
4 hours lecture
Requirements and applications of federal, state and local hazardous materials laws and regulations. Emphasizes program compliance with OSHA (Occupational Health and Safety Administration) Hazard Communication Plan, EPA (Environmental Protection Agency) Community Right-To-Know, Department of Transportation, Proposition 65, and Emergency Response Plan. Includes the legal framework of hazardous materials laws and requirements and step-by-step program development: written plan, obtaining/interpreting MSDS (Material Safety Data Sheets), labeling, emergency responders site map, shipping, handling, and training. Students will develop plans related to hazardous materials management through hands-on program development: DEH/ HMD (Department of Environmental Health/Hazardous Materials Division) Hazardous Material Business Plan, OSHA Hazardous Communication Plan, components of CaARPR (California Accidental Release Prevention) and RMP (Risk Management Plan), and planning and reporting functions.

CSU

201 INTRODUCTION TO INDUSTRIAL HYGIENE AND OCCUPATIONAL HEALTH 4 UNITS
Recommended Preparation: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
3 hours lecture, 3 hours laboratory
Anticipation, recognition, revaluation and control of biological and physical hazards in the workplace. Introduction to the development of industrial hygiene and occupational health and safety as a professional discipline. Provides an understanding of basic physiological processes and the effects caused by occupational exposure to hazards. Survey of various occupational health and safety programs and government regulations. Industrial hygiene monitoring and sampling techniques for airborne contaminants, noise, heat, radiation and illumination.

CSU

205 SAFETY AND RISK MANAGEMENT ADMINISTRATION 4 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
4 hours lecture
Study of how accidents and incidents occur in the occupational health and safety environment. Instruction in the establishment and maintenance of safety programs and comprehensive analysis of occupational health programs with an emphasis on safety program management. Topics include: planning approaches to safety and health management used by international, national and local regulatory agencies, insurance companies, and professional societies; risk management; worker compensation; and employee accommodations in the workplace. Students will develop plans related to safety and risk management.

CSU

210 INDUSTRIAL WASTEWATER AND STORMWATER MANAGEMENT 4 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
4 hours lecture
Overview of water/wastewater regulations with an emphasis on federal, state and local regulatory standards. Integrated study of the principles of wastewater and stormwater management including hydrology, water distribution, wastewater collection, stormwater management, and overall safe drinking water issues.

CSU

215 AIR QUALITY MANAGEMENT 3 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
3 hours lecture
Overview of air quality regulations with an emphasis on federal, state and local requirements. Integrated study of the principles of air permits and permit compliance including source testing, emission reduction, inspections, monitoring, stationary and mobile sources, air toxics, new equipment shakedown, and overall global air quality issues.

CSU

230 SAFETY AND EMERGENCY RESPONSE 4 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent or concurrent enrollment
3 hours lecture, 3 hours laboratory
Instruction in safety and emergency response to chemical and physical exposures in industrial and field settings. Topics include: hazard analysis; contingency planning; housekeeping and safety practices including proper use and selection of PPE (Personal Protective Equipment), site control and evaluation; handling drums and containers; field sampling and monitoring; proper use of instruments; incident response planning; emergency response including field exercises in the use of PAPR (Powered Air Purifying Respirator) and SCBA (Self Contained Breathing Apparatus); and an overview of the ICS (Incident Command System). Satisfies requirements for generalized employee training under OSHA (Occupational Health and Safety Administration) [29 CFR 1910.120] and Title 8, California Code of Regulations [5192 (e) (3) (A)].

CSU

240 COOPERATIVE WORK EXPERIENCE 1-4 UNITS
Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent
75 hours paid or 60 hours unpaid work experience per unit
Practical application of principles and procedures learned in the classroom to
various phases of Environmental Health and Safety Management (EHSM). Work experience will be paid or volunteer positions at local industries or governmental agencies that regulate environmental industries. Placement assistance will be provided, but students are required to select and secure a placement site. Minimum of one unit of work experience is required to complete the EHSM certificate/degree. Occupational cooperative work experience credit may accrue at the rate of one to 8 units per semester for a total of 16 units, and students must work 75 paid hours or 60 non-paid hours per unit earned. May be taken for a maximum of 8 units in EHSM.

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