

ENVIRONMENTAL MANAGEMENT AND TECHNOLOGY (ENVMT)

The Environmental Management and Technology Department's mission is to help students attain the knowledge, skills, and broad-based outlook needed to succeed as environmental professionals, as stewards of the land, and as responsible citizens. To accomplish these goals, the department provides open access to educational programs, internships, and community outreach in a diverse and culturally rich learning environment.

Specifically the department:

- coordinates with a number of community and industry partners for field experiences and internships
- offers first-time college students and those returning to school the job skills needed for entry level careers and the classes for transfer to 4 year institutions or graduate study
- provides personalized career support from Merritt instructors who work as professionals in the field.

Career options include Environmental Analyst, Biological Technician, Naturalist/Interpreter, Environmental Coordinator, Environmental Technician, Conservation Worker, Restoration Ecologist, Park Ranger, and more.

COURSES

ENVIRONMENTAL MANAGEMENT AND TECHNOLOGY

ENVMT 1 ENVIRONMENTAL CAREERS

1 unit, 1 hour lecture (GR or P/NP)
Acceptable for credit: CSU

Career development strategies and exploration of what is available in emerging environmental fields: Exploration of environmental fields that are some of the fastest-growing sectors of the economy such as sustainable building, environmental policy and education, food, recycling, pollution reduction, green business, energy, transit, watershed protection, and environmental technologies. 0303.00

ENVMT 2 INTRODUCTION TO SUSTAINABLE ENVIRONMENTAL SYSTEMS

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU, UC

Interdisciplinary study of the impact of human civilization on the earth's major ecological systems: Issues examined in historic, contemporary, and future settings, including both Western and non-Western contexts; material presented from a theoretical point of view, with a focus on core concepts and methods related to ecology, sustainability, human population, natural resources, wastes and pollution; reflection of how human economic, political, and ethical behaviors are inextricably interwoven with the environment; and presentation of environmental career options. 0303.00
AA/AS area 2; CSU area D; IGETC area 4G

ENVMT 2L PRINCIPLES OF ECOLOGY AND SUSTAINABLE SYSTEMS LAB

1 unit, 3 hours laboratory (GR)
Prerequisite or Corequisite: BIOL 13 or ENVMT 2
Also offered as BIOL 13L. Not open for credit to students who have completed or are currently enrolled in BIOL 13L.
Acceptable for credit: CSU, UC

Field laboratory course which identifies, measures, and tests the sustainable environmental principles discussed in ENVMT 2 or BIOL 13: Qualitative and macro/ micro quantitative methods, identifying and sustaining ecosystems, nutrient cycling, geographical and aquatic ecology, population dynamics, water and energy systems, air pollution and hazardous waste, and farming methods and use of pesticides. 0303.00
CSU area B3 (with BIOL 13 satisfies lab requirement); IGETC area 5B, 5C (with BIOL 13 satisfies lab requirement)

ENVMT 3 SOCIAL ISSUES IN AGRICULTURE

3 units, 2 hours lecture, 3 hours laboratory (GR or P/NP)
Acceptable for credit: CSU, UC

Study of the social side of agriculture, food and gardening: Investigation of social justice, food access, food security and hunger issues on a local and national scale; current debates and conversations related to food systems (both industrial and alternative), agricultural production and labor issues; perspectives of field workers, farmers, academics and food-related pop-culture writers. 0399.00
AA/AS area 2; CSU area D; IGETC area 4G

COURSES

ENVMT 5 OAKLAND FOOD CULTURE

3 units, 2 hours lecture, 3 hours laboratory (GR or P/NP)
Acceptable for credit: CSU

Investigation of the symbolic, social, and cultural role of edible gardens in diverse cultures and the recognition of how one's own heritage can be an asset as a gardener and designer: Field trips to Oakland gardens designed by people of different cultures, documenting the cultural diversity of food and gardens through interviews and photography. 0399.00
AA/AS area 2, 3

ENVMT 8 INTRODUCTION TO OUTDOOR EDUCATION

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU

Overview of nature/culture interpretation and education: Planning for age, theme, and place appropriate presentations leading towards employment opportunities in the environmental management field. 0303.00

ENVMT 11 SUSTAINABLE URBAN AND REGIONAL PLANNING

3 units, 3 hours lecture (GR or P/NP)
Formerly offered as EMART 41.
Acceptable for credit: CSU

Survey of sustainable urban and regional planning: Overview of the problems and solutions of environmentally and socially sustainable planning of cities, suburbs, and rural areas; history, philosophies and theories of urban planning; rural land use and planning strategies; and the regional approach to planning. 0303.00
AA/AS area 2, CSU area D

ENVMT 12 ENVIRONMENTAL RACISM AND JUSTICE

3 units, 3 hours lecture (GR or P/NP)
Also offered as AFRAM 38. Not open for credit to students who have completed or are currently enrolled in AFRAM 38.
Acceptable for credit: CSU, UC

American and global environmental policy and ethics concentrating on their impact on minorities and people of color: Unequal environmental protection; the politics of pollution, race and waste dumping; and the intersection of the Civil Rights and Environmental Justice Movements with an emphasis on civil rights, social justice, white supremacy, and the impact of the Environmental Movement on people of color. 0303.00
AA/AS area 2, 5; CSU area D; IGETC area 4C, 4G; UCB American Cultures

ENVMT 16 INTRODUCTION TO HEALTHY COMMUNITY SYSTEMS

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU

Introduction to healthy community systems and their impact on both human and environmental health: Exploration of how "health for all" can be built into neighborhoods and urban plans and policies; includes field projects. 0303.00

ENVMT 35 INTRODUCTION TO URBAN AGRO ECOLOGY

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU

Introduction to the expanding production and distribution of healthy food and environmentally sustainable agriculture in and near cities: Organic and intensive agriculture, field methods, policy, economy, ecology, and equity. 0303.00

ENVMT 35L URBAN AGROECOLOGY LAB

1 unit, 3 hours laboratory (GR or P/NP)
Acceptable for credit: CSU

Practical solutions for ecological farming methods and community food security: Practical skills for creating an ecologically-based bio-intensive garden; planning, developing, and sustaining small-scale urban food gardens for diverse housing types. 0399.00

ENVMT 38A NATURAL BUILDING

3 units, 2 hours lecture, 3 hours laboratory (GR or P/ NP)
Also offered as LANHT 36A. Not open for credit to students who have completed or are currently enrolled in LANHT 36A.
Acceptable for credit: CSU

Building and design techniques which use energy-efficient, local, natural, sustainable, and accessible materials with a focus on urban applications: Historical and current uses of natural building materials, hands-on experience, guest lecturers, and tours of local projects; emphasis on appropriate site-specific materials and construction of natural building foundations and small projects (benches, ovens, walls). 0303.00

ENVMT 38B NATURAL BUILDING

3 units, 2 hours lecture, 3 hours laboratory (GR or P/ NP)
Also offered as LANHT 36B. Not open for credit to students who have completed or are currently enrolled in LANHT 36B.
Acceptable for credit: CSU

Continuation of ENVMT 38A: Site assessment, design sketches, and construction of natural building roof systems and small projects (natural plasters, rammed earth). 0303.00

COURSES

ENVMT 38C NATURAL BUILDING

3 units, 2 hours lecture, 3 hours laboratory (GR or P/ NP)
Also offered as LANHT 36C. Not open for credit to students who have completed or are currently enrolled in LANHT 36C.
Acceptable for credit: CSU
Continuation of ENVMT 38B: Independent student projects and construction of poured adobe flooring and natural building walls with plastering. 0303.00

ENVMT 40 FROM TREE TO SEA: A BAY AREA ENVIRONMENTAL CROSS SECTION

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU

Introduction to the outdoor environment of the San Francisco Bay watershed environment and nearby sites: Field study of ecosystems of the bay, hills, forest lands, creeks and wetlands; sampling of water quality and marine life; and explorations of sustainable cultural, ecotourism, and economic uses of the Bay environment. 0303.00

ENVMT 44 INTRODUCTION TO CREEK AND WATERSHED RESTORATION: GENERAL ASPECTS

3 units, 3 hours lecture (GR or P/NP)
Acceptable for credit: CSU

Principles and practices in the restoration and monitoring of creeks and watersheds: Global water cycle and atmospheric circulation; basic hydrological principles and processes including erosion, flooding, and deposition of sediment. 0303.00

ENVMT 49 INDEPENDENT STUDY IN ENVIRONMENTAL MANAGEMENT AND TECHNOLOGY

.5-5 units (GR or P/NP)
Acceptable for credit: CSU

See section on Independent Study. 0303.00

ENVMT 50 SPECIAL PROJECTS IN ECOLOGICAL PLANNING, IMPLEMENTATION AND MAINTENANCE

.5-3 units, .5-2.5 hours lecture, 0-1.5 hours laboratory (GR or P/NP)
Open-entry/open-exit
Formerly offered as EMART 10A-D.
Acceptable for credit: CSU

Ongoing real-world projects in environmental management, funding, policy, restoration and maintenance practices for buildings, watersheds, and landscapes at public sites: The collaborative planning process; ecological assessment and development of timelines, work plans and budgets for ecological restoration; green and regenerative building; project evaluation and monitoring. 0303.00

ENVMT 210A ENVIRONMENTAL PHOTOGRAPHY AND PHOTO MONITORING I

1.5 units, 1.5 hours lecture (GR or P/NP)

Introduction to environmental photography: Historical, social, and technical uses of environmental photography and image making; hands-on introduction to beginning visual and technical methods using a camera to create and edit images on a basic level. 0303.00

ENVMT 210B ENVIRONMENTAL PHOTOGRAPHY AND PHOTO MONITORING II

1.5 units, 1.5 hours lecture (GR or P/NP)

Introduction to environmental photography and photo monitoring in the field: Field demonstration and projects involving selection, shooting, and editing of images; producing photo documents and shows. 0303.00

NONCREDIT COURSE

ENVMT 501 SUSTAINABLE ENVIRONMENTAL SYSTEMS PROJECTS

0 units, 3 hours lecture, 3 hours laboratory (P/NP)

Introduction to how modern systems of industry and policy impact the quality, health and safety of communities: Practical short and long-term ways to improve air and water quality and reduce risks from disruptions like storms, fires, and earthquakes; sustainable environmental opportunities at home and in local business, product choices, and public resources in buildings and the landscape. 0303.00