

Environmental Technology

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Folsom Lake College offers limited coursework in Environmental Technology (ENVT). These courses are designed to provide basic information to students interested in environmental protection, regulatory compliance and workplace safety and health applications. Students may also transfer to Cosumnes River College to earn a degree in Environmental Technology.

Graduates may be employed by businesses and governmental agencies that require a knowledge of techniques for storage, treatment, transport and disposal of hazardous materials, a basic understanding of the chemical and biological phenomena which underlie environmental protection, and an understanding of environmental health and safety. Technicians may be employed in remediation, monitoring, compliance or environmental information applications.

Career Options

Engineering/Consulting Firms; Governmental Compliance Agencies; Solid Waste Disposal Landfills; Agricultural Chemical Manufacture & Application Firms; Analytical Laboratories; Treatment, Storage, Disposal Facilities; Warehouse-Transportation Systems; Electronics Semiconductor Industry; Workplace Health and Safety Support; Energy & Environmental Audit/Inventories

Many career options require a B.S. degree. Classes beyond the associate degree may be required to fulfill some career options or for preparation for transfer to a university program.

Highlights

A "hands-on" program providing a firm foundation in all areas of hazardous materials handling

Broad-based field with applications ranging from recordkeeping to pollution cleanup to emergency response

Environmental Technology (ENVT)

ENVT304

Environmental Biology

3 Units

Formerly: ENVT 4

Prerequisite: None

Course Transferable to UC/CSU

Hours: 54 hours LEC

This course presents an overview of ecosystems and natural resources. Major topics covered include ecological principles, ecosystem functioning, conservation biology, resource use and management, pollution and other human-caused environmental impacts. This course provides the background needed to understand major global and regional issues such as acid rain, global warming, hazardous waste disposal, deforestation and endangered species recovery. ENVT 304 is especially useful for Environmental Technology, Environmental Sciences, Ecology, Recreation, Education and Political Science majors. Field trips, attendance at public meetings and/or a semester project may be required. Not open to students who have received credit for BIOL 350.

ENVT350

Water Resources

4 Units

Formerly: ENVT 25

Prerequisite: None

Course Transferable to CSU

Hours: 54 hours LEC ; 54 hours LAB

This course provides an overview of water resources including aspects of the chemistry, geography, and biology of aquatic systems. Water laws and the ecotoxicology of water resources will also be discussed. Students will learn to use basic sampling and analysis methods to assess water resources. Students will be expected to conduct lab work, some of which may be outdoors. The class is useful for students interested in Environmental Science, Environmental Technology, Geography, Natural Resource Management, and Biology. This class is not intended for students training as water treatment plant operators.

ENVT 350.1
Fundamentals of Water Resources
1 Unit

Formerly: ENVT 25A

Prerequisite: None

Course Transferable to CSU

Hours: 18 hours LEC

This course provides an overview of water resources including aspects of the chemistry, geography, and biology of aquatic systems. Topics include hydrologic cycle, ocean resources, freshwater systems, and groundwater. Water laws and regulations are also discussed. The class is useful for students interested in Environmental Science, Environmental Technology, Geography, Natural Resource Management, and Biology. (The class is not intended for students training as water treatment plant operators.)

ENVT 350.2
Groundwater Resources
1.5 Units

Formerly: ENVT 25B

Prerequisite: None

Advisory: ENVT 350.1.

Course Transferable to CSU

Hours: 18 hours LEC ; 27 hours LAB

This course provides an overview of groundwater resources. The structure of aquifers including groundwater recharge, storage, and flow is discussed. Students will analyze the impacts of groundwater withdrawal and contamination. Students will learn to use basic sampling and analysis methods used to assess groundwater systems. The remediation of contaminated groundwater will be discussed. Students will be expected to conduct lab work; some of this may be outdoors. The class is useful for students interested in Environmental Science, Environmental Technology, Geography, Natural Resource Management, and Biology. A basic knowledge of water resources is assumed before beginning the course. The class is not intended for students training as water treatment plant operators.

ENVT 350.3
Surface Freshwater Resources
1.5 Units

Formerly: ENVT 25C

Prerequisite: None

Advisory: ENVT 350.1.

Course Transferable to CSU

Hours: 18 hours LEC ; 27 hours LAB

This course provides an overview of surface water resources including lakes, streams, and wetlands. The general characteristics of these ecosystems will be discussed with an emphasis on the biology of these systems. Students will learn to use basic sampling and analysis methods used to assess freshwater systems. The ecotoxicology and clean up of contaminated surface water will be discussed. Students will be expected to conduct lab work, some of which may be outdoors. The class is useful for students interested in Environmental Science, Environmental Technology, Geography, Natural Resource Management, and Biology. A basic knowledge of water resources is assumed before beginning the course. The class is not intended for students training as water treatment plant operators.

ENVT 352
Water Resource Management
1.5 Units

Formerly: ENVT 26

Prerequisite: None

Advisory: ENVT 350.1.

Course Transferable to CSU

Hours: 18 hours LEC ; 27 hours LAB

This course provides an overview of managing potable and waste water supply with respect to use. Topics include water resource demand, the soil/water relationship and water quality. Water treatment laws and regulation will also be discussed. Students learn the basic sampling and analysis methods to assess quality and application issues. Students are expected to conduct lab work, some of which will be outdoors. This class is useful for students interested in Environmental Science or Technology, Natural Resource Management and Biology. This class is not intended for students training as water treatment plant operators.

ENVT 495
Independent Studies in Environmental Technology
1-3 Units

Formerly: ENVT 49I

Prerequisite: None

Course Transferable to CSU

Hours: Variable

See Catalog under Alternative Credit/ Study Options

ENVT 498
Work Experience in Environmental Technology
1-4 Units

Formerly: ENVT 48

Prerequisite: None

Course Transferable to CSU

Hours: Variable

See Catalog under Alternative Credit/ Study Options

ENVT 499
Experimental Offering in Environmental Technology
.5-4 Units

Formerly: ENVT 49

Prerequisite: None

Course Transferable to CSU

Hours: Variable

See Catalog under Alternative Credit/ Study Options