

Summer 2011 ENVS Topics Course Descriptions

ENVS 2100 Cal-Wood Education Center Field Courses

Continuing Education Section 570 June 20-July 5.

Instructor: Steve Johnson

This two-week field-intensive course focuses on observation and analysis of the Colorado Front Range ecosystem. The location is Cal-Wood Education Center, a 1,200-acre outdoor classroom in the montane life zone of the Rocky Mountains. This site offers exceptional opportunities to study a relatively pristine and highly diverse landscape. Students conduct an ecosystem survey including investigation of the geography, climatology, geology, ecology, and conservation. Ecological concepts and methods are explored in greatest detail. Instruction is delivered with inquiry-based activities incorporating observation & data collection, small working groups, direct lecture, focused exploration & field trips. This course applies and synthesizes information learned in a classroom context to an authentic, complex and dynamic environmental setting.

More information: <http://coefs.org/default.aspx>

To register or for more information email the instructor at: steve@coefs.org

New Major: Application OR Old Major: Environmental Science Track Field Course

ENVS2100 Topics in Environmental Sciences: Natural Resource Management

Course dates: May 9 – 26, 2011

May 9- 19, class will be based at the Fort Lewis College campus in Durango, Colorado

May 19- 26, class will be based at the Mountain Studies Institute's field station in Silverton

This class will explore science, policy, and issues related to natural resource management, with a focus on southwestern Colorado. Through a case study approach, this course will examine how science can help to inform land management decisions in the San Juan Mountains across a variety of resources, contexts, and scales. Topics will include land management policy; management of natural resources of water, forests, wetlands; and address issues such as forest ecosystem health, recreation, wildfire, oil and gas development, air and water pollution, and climate change. The course will occur in Durango and Silverton, Colorado and will involve hands-on excursions to field sites. Students will receive grades based on meaningful participation, field journals, quizzes, and a written paper.

Instructor: Marcie Demmy Bidwell, MLA

Email: Bidwell_m@fortlewis.edu

Phone: 970/247-6908 Office: 130A Reed Library, Fort Lewis College

New Major: Application OR Old Major: Environmental Science Track Field Course

ENVS 3020-001 Advanced Writing in Environmental Studies.

Summer Session Mayterm MTWTF 9:00-12:15

Instructor: Dale Miller

Offers training in critical thinking and analytical writing skills appropriate to upper-division classes. Writing assignments integrate the subject matter of different topical areas. Restricted to junior and senior ENVS majors. Approved for arts and sciences core curriculum: written communication.

written communication/ENVS skills (recommended for students considering HONORS thesis)

**ENVS 3520 Environmental Issues in Geosciences: Mining Resources of Four Corners
Continuing Education Mayterm**

Instructor: Sarah Rogers

Addresses current environmental problems that need an understanding of geology.

Prereq.: a two-course sequence in any natural science. Same as GEOL 3520.

This section will explore mining related issues that have pronounced impact on the environment, economy and policies of the Four Corners Region. Week one will be at CU Boulder in lecture. Weeks two and three will be in the field, visiting mining and reclamation sites in NM, UT and CO.

To register or for more information email the instructor: Sarah.Rogers@colorado.edu

New Major: Application OR Old Major: Environmental Policy Track /Science Track Specialization(any)

**ENVS 4100-570 TPC Issues and Approaches to Forest Restoration
Continuing Education Mayterm**

Instructor: Tori Der

This course will explore current problems and approaches to forest restoration, including the ecological, social, and political contexts in which restoration occurs. Topics will include restoration ecology in the southern Rocky Mountains; fire ecology; goals, prescriptions, and effects of restoration treatments; and restoration policies and practice. The course will include field trips to local forests, and collaborative forest restoration projects in Colorado and New Mexico.

To register or for more information email the instructor: cranecollab@gmail.com

New Major: Natural Resources and Sustainability OR Old Major: All Track A except Env. Analysis

ENVS 4120-500, Topics in Environmental Science: Food and the Environment

Instructor: Sharon Collinge

May 31- June 17, 2011

Food production and procurement are inherently interdisciplinary in that they involve ecological processes, management of natural resources, and human values and decisions. In this course we will take a comprehensive look at the environmental issues associated with food systems. We will critically examine how food choices and prospects for valuing the services of nature may influence Earth's ability to sustain society into the future. We will consider topics such as locally versus organically grown food, fisheries and aquaculture, bushmeat hunting, crop genetic diversity and genetic modification, coffee pollination and tropical conservation, food miles, and connections among alternative energy, food prices, and crop production.

We will read recent books relevant to these topics and will supplement the books with readings from the primary literature, class discussions, excursions to local farms, markets, and grocery stores; guest participants, and student presentations. In addition to discussion and analysis of readings in small groups, each student will design and complete an individual project focused on an integration of a topic related to food and the environment.

New Major: Natural Resources and Sustainability OR Old Major: All Track A except Env. Analysis