

**ENVIRONMENTAL FOCUS PLANNING CLUSTER  
PRELIMINARY REPORT  
MAY 2002**

The Environmental Focus Planning Cluster has explored many issues regarding program coordination, image, and stimulation on The University of Montana-Missoula campus. One output at this time is a preliminary inventory of environmental research, education, and outreach programs on campus. A second output are some activities that the cluster believes, if implemented, would enhance environmental programs on campus and enhance our image as an environmentally oriented university.

Our overall vision is that one of the major themes for UM should be environment and natural resources. UM should be known as a premier place for education, research, and outreach dealing with environment and natural resources. To achieve this will require some collaborative and catalyzing activities, but many of the necessary building blocks are in place on campus.

Some of the activities identified so far are the following:

Enhance the public presentation of UM's environmental and natural resources activities by enhancing the UM web page links to provide a focus on the many activities and programs on campus and by designing a brochure and other media focused on UM's environment and natural resource programs.

Since teaching about the environment often requires collaborative teaching activities across disciplines, find ways to remove barriers and stimulate and reward joint teaching on campus, often across department and college/school boundaries.

Develop an annual campus-wide symposium to showcase scholarship about the environment and natural resources.

Explore how best to place an emphasis on the environment and natural resources in the hiring for many faculty positions.

Devise a system to effectively notify those interested about speakers coming to campus.

Explore how to infuse environmental and natural resources literacy into curricula and to enhance the literacy of students, faculty, and staff on campus.

## INVENTORY OF ENVIRONMENTAL PROGRAMS

### Curricula/Courses

#### Anthropology

MA Anthropology, Option in Cultural Heritage

#### Chemistry

BS Chemistry, Option in Environmental Chemistry

#### Biological Sciences

BA Biology, Option in Ecology

BA Biology, Option in Natural History

BA Biology, Option in Zoological Sciences

BA Biology, Option in Biological Sciences

BS Microbiology, Option in Microbial Ecology

MS Organismal Biology and Ecology

MS Wildlife Biology (joint w/ School of Forestry)

PhD Biochemistry, Option in Microbial Ecology

PhD Organismal Biology and Ecology

#### Environmental Studies

BA Environmental Studies

MS Environmental Studies

#### Forestry (whole school)

BS Forestry, Option in Forest Resources Management

BS Forestry, Option in Range Resources Management

BS Recreation Management, Option in Recreation Resources Management

BS Recreation Management, Option in Nature-Based Tourism

BS Resource Conservation, Option in Conservation

BS Resource Conservation, Option in Terrestrial Sciences

BS Resource Conservation, Option in Land and People

BS Resource Conservation, Minor in Nature and Democracy

BS Wildlife Biology, Terrestrial Option

BS Wildlife Biology, Aquatic Option

Wildlife Biology Minor

Wilderness Studies Minor

Wilderness and Civilization

MS Forestry, Recreation Management, Resource Conservation, and Wildlife Biology

MS Masters International Program, Forestry, Resource Conservation, Recreation Management, Wildlife Biology (cooperative with the Peace Corps)

MEM Ecosystem Management

PhD Forestry (includes many natural resource fields)  
PhD Fish and Wildlife Biology (joint with DBS and MSU)

#### Geography

BA Geography, Option in Rural Town and Regional Planning  
BA Geography, Option in Cartography and GIS  
MA Geography, Option in Rural Town and Regional Planning  
MA Geography, Option in Cartography and GIS

#### Geology

BS Geology  
BS Geology, Option in Environmental Geology  
MS Geology  
PhD Geology  
PhD Geology, Option in Applied Geosciences

#### Law

Certificate in Environmental and Resource Law

#### Pharmaceutical Sciences

MS Toxicology  
PhD Toxicology

#### Philosophy

MA Philosophy, Option in Environmental Philosophy

#### Sociology

BA Sociology, Option in Rural and Environmental Change  
MA Sociology, Option in Rural and Environmental Change

#### Other Programs, Courses, etc.

Mansfield Library—Environmental History, Environmental Writing, Forestry  
Campus Collections—Herbarium, Paleontology, Birds and Mammals  
Education—environmental education  
English—Environmental Writing  
History—Environmental History  
Economics—Environmental and Resource Economics  
Foreign Languages and Literatures—Attitudes toward nature  
Computer Science—Computer visualization  
Mathematics—Spatial statistics  
Pharmacy—Medicinal plants  
PEAS—Program on Ecological Agriculture and Society

#### Research

Center for Environmental Health Sciences  
Toxicology

Center for the Rocky Mountain West  
Regional Studies

Chemistry  
Environmental Chemistry

Biological Sciences  
Animal Behavior and Conservation  
Avian Ecology  
Conservation Genetics  
Ecology and Evolution  
Environmental Microbiology  
Invasive Plant Management Program  
Limnology  
Plant Ecology

EVST  
Environmental Policy  
Land Conservation and Public Land Policy  
Sustainable Agriculture  
Toxics Policy  
Transboundary Issues  
Water and Watershed Studies

Geology  
Climate Change  
Economic Geology  
Environmental Geochemistry  
Environmental Geophysics  
Hydrobiogeosciences

Montana Forest and Conservation Experiment Station  
Ecology and Ecosystems  
Economics, Management and Policy  
Fire Ecology and Management  
Modeling and Management Information Systems  
Recreation, Tourism, and Wilderness  
Silviculture and Stand Management  
Water, Riparian, and Wetland Resources  
Wildlife Ecology and Management  
Lubrecht Experimental Forest  
Bandy Experimental Ranch

## **Centers, Institutes, Facilities, and Programmatic Units**

Bandy Experimental Ranch (MFCES)  
Bolle Center for People and Forests (Forestry)  
Boone and Crockett Wildlife Conservation Research Program (Forestry)  
Bureau of Business and Economic Research (Business)  
Center for Environmental Health Sciences (Pharmacy and Allied Health Sciences)  
Center for the Rocky Mountain West (VP for Research and Development)  
Earth Observing System Training and Data Center (Education and Forestry)  
Field Research Station at Ft. Missoula (DBS and Geology)  
Flathead Lake Biological Station (VP for Research and Development)  
Inland Northwest Growth and Yield Cooperative (Forestry)  
Institute for Tourism and Recreation Research (Forestry)  
Land Use Clinic (Law)  
Lubrecht Experimental Forest (MFCES)  
Mission Oriented Research Program (Forestry)  
Montana Cooperative Wildlife Research Unit (VP for Research and Development)  
Montana Natural History Center (UM Affiliated)  
Murdock Molecular Biology Laboratory (DBS)  
National Center for Landscape Fire Analysis (Forestry)  
Numerical Terradynamics Simulation Group (Forestry)  
Quantitative Services Group—GIS (Forestry)  
Riparian and Wetland Research Program (Forestry)  
Rocky Mountains Cooperative Ecosystem Studies Unit (VP for Research and Dev.)  
Social Science Research Laboratory (Geography and Sociology)  
Watershed Health Clinic (EVST)  
Wilderness Institute (Forestry)  
Wildlife Spatial Analysis Laboratory (VP for Research and Development)

## **Additional Outreach Activities**

Environmental Health Symposium (Pharmacy and Allied Health Sciences)  
Public Land and Resources Law Review (Law)  
Public Land and Resources Symposium (Law)  
International Protected Areas Management Shortcourse (Forestry)  
Numerous workshops, courses, and meetings (multiple sponsors)