

## Section IV:

---

# *Other Training Programs*

- 138 Arthur Carhart National  
Wilderness Training Center*
- 147 Natural Resources  
Conservation Service*

### **Other Training Programs**

Courses listed in this section are sponsored by other Federal agencies and interagency cooperatives. All tuition and room-and-board charges are the responsibility of the student. Please call the contact listed in the course description for additional information.

# Carhart General Information

## Arthur Carhart National Wilderness Training Center

The Arthur Carhart National Wilderness Training Center, located in Missoula, Montana, on the campus of the University of Montana, is a Federal, interagency organization established in 1993. The mission of the Center is to “foster interagency excellence in wilderness stewardship by cultivating knowledgeable, skilled, and capable wilderness managers and by improving public understanding of wilderness philosophy, values, and processes.” The Carhart Center training is offered across the country, working with experts at all levels of the four wilderness-managing agencies, along with outside experts.

The Carhart Center is funded by the Bureau of Land Management, the National Park Service, the U.S. Fish and Wildlife Service, and the U.S. Forest Service. Carhart training includes courses in wilderness stewardship, wilderness planning, wilderness interpretation/education, restoration in wilderness, managing visitor use in wilderness, and monitoring natural resources in wilderness. Instructed courses are scheduled throughout the year. With a limited staff of eight, the Carhart Center is not a destination training center. Instead, training courses are provided in different localities across the country, often in remote, rustic locations, in keeping with wilderness philosophies.

## Distance Education Courses

Correspondence courses are offered for graduate and undergraduate credit through the University of Montana College of Forestry and Conservation and are available through self-paced correspondence or through the Internet. *If you are interested in distance education wilderness courses, you must register through the University of Montana.* Please use their Internet site <http://wmdep.wilderness.net/> or call 406/243 5346 or complete the application on p. 145. There is a tuition for these courses (as shown on their Web site), and college credit is given.

## Eligibility

Carhart Center courses are open to individuals from Federal, state, and local governments and other prominent partners in managing federally designated wilderness lands. Correspondence courses are available to the general public, as well as government employees.

## Registration Procedures

Carhart Center courses are offered independently from the National Conservation Training Center and are held in locations around the United States. *A list of courses, their dates, and locations can be found on the Carhart Internet site at <http://carhart.wilderness.net> or by calling 406/243 4682. Registration for Carhart courses is handled separately through the Carhart Center.* A registration form

is found on page 141, and it must be faxed to the Carhart Center at 406/243 4717 at least 60 days prior to the training. You will then receive information about the course. Many of the Carhart courses are offered tuition-free for Federal employees. However, it is recommended that you contact the Carhart Center for cost information.

## Lodging and Transportation Arrangements

Participants must make their own lodging and transportation arrangements, unless provided by a specific course arrangement. Upon registration, course and lodging information will be sent to each accepted participant.

## Educational Materials

In addition to providing training, the Carhart Center also develops educational materials designed for a general audience. These materials are available on the Internet at <http://carhart.wilderness.net>. Information on the National Wilderness Preservation System and other pertinent wilderness information may be found on the Internet site <http://www.wilderness.net/>, which is provided through a partnership among the Carhart Center, the Aldo Leopold Wilderness Research Institute, and the University of Montana’s Wilderness Institute, all located on the University of Montana campus in Missoula, Montana.

## **Wilderness Stewardship Training**

All Federal land management agencies have designated wilderness lands. The Carhart National Wilderness Training Center offers two courses in wilderness stewardship. The national course gives top-level management an understanding of the complexities and philosophical underpinnings of managing wilderness lands. Regional courses are offered for on-the-ground wilderness staff and may provide information on basic wilderness principles, specific techniques, or educational programs. Most stewardship courses are conducted in a casual, semi-primitive site, including a 1-3-day wilderness trip. Seminars are interactive interagency discussions combined with lectures.

**Who should attend:** Agency decision-level managers, including refuge managers, foresters, park superintendents, state managers, assistant regional directors, and higher-end positions for the national course; wilderness rangers, park rangers, wilderness coordinators, refuge park rangers, outdoor recreation planners, law enforcement personnel, ecologists, endangered species coordinators, and forest district staff for the regional courses.

**Length:** 5-7 days

**Objectives:** Discuss the 1964 Wilderness Act and wilderness values envisioned by Congress, wilderness leaders, and historians;

Distinguish the changing social, cultural, and political trends affecting wilderness management;

Identify and apply wilderness management principles to specific management challenges;

Identify the roles of state and Federal fish and wildlife agencies in wilderness management; and

Describe proper wilderness techniques for managing grazing, fire, wilderness education, recreation, and air quality.

**Availability:** Annually  
**Contact:** Receptionist  
**Arthur Carhart National Wilderness Training Center**  
 Missoula, Montana  
**Phone:** 406/243 4682  
**Fax:** 406/243 4717

## **Restoration in Wilderness**

This interagency course assists wilderness managers in assessing small site disturbance to wilderness due to recreational impacts, mining, roads, and range projects. Instruction also helps managers design and use restoration activities appropriate for wilderness areas. The course content regarding the type of impact to be restored is tailored to the course location and needs of the participants. Courses may be scheduled for arid lands, sub-alpine, or eastern/southern U.S. ecosystems and could address restoration of recreation impacts, mining, roads, or range projects.

**Who should attend:** Wilderness specialists and resource managers, wilderness technicians and trail crew members, outdoor recreation planners, soil scientists, botanists, and personnel from other wilderness disciplines.

**Length:** 5 days

**Objectives:** Describe the steps for formulating rehabilitation and restoration plans;

Identify relationships between impacts and restoration solutions;

Explain existing management frameworks in planning, implementing, monitoring, and evaluating restoration efforts; and

While applying minimum tool requirements, describe restoration strategies and techniques for wilderness management.

**Availability:** Annually  
**Contact:** Receptionist  
**Arthur Carhart National Wilderness Training Center**  
 Missoula, Montana  
**Phone:** 406/243 4682  
**Fax:** 406/243 4717

## **Managing Visitor Use in Wilderness**

This interagency course is designed to help wilderness staff address the problems associated with recreational use in wilderness and wilderness study areas. This interactive forum allows participants to learn about and discuss information and tools for managing and preventing recreation overuse. The course also explores approaches for managing wilderness lands adjacent to recreation areas. Topics are presented primarily through case studies.

**Who should attend:** Decision-makers, managers, and staff.

**Length:** 4 days

**Objectives:** Identify indicators, standards, and monitoring techniques to determine physical and social carrying capacities; and

Demonstrate various techniques for managing visitor use, including travel management, education, creating camping areas, setting limits, and designing and implementing a permit system.

**Availability:** Annually  
**Contact:** Receptionist  
**Arthur Carhart National Wilderness Training Center**  
 Missoula, Montana  
**Phone:** 406/243 4682  
**Fax:** 406/243 4717

## Wilderness Education and Interpretation

---

This course provides participants with an overview of the important themes in the Wilderness Act, and its evolution, and current wilderness values of the American public. The course also covers how to create, implement, and evaluate a wilderness education plan and demonstrates several wilderness curricula, Internet sites, signing and brochure examples, and wilderness visitor permit systems.

**Who should attend:** Wilderness decision-makers, environmental educators, and field personnel who work with wilderness visitors.

**Length:** 4 days

**Objectives:** Distinguish the characteristics of effective interpretive programs;

Identify the most effective ways to help the public understand and value wilderness; and

Describe the basic principles of planning, implementing, and evaluating an effective wilderness education program.

**Availability:** Biannually  
**Contact:** Receptionist  
**Arthur Carhart National Wilderness Training Center**  
Missoula, Montana  
**Phone:** 406/243 4682  
**Fax:** 406/243 4717

## Natural Resources Monitoring in Wilderness

---

This interagency course examines the role of natural resources monitoring and management in the stewardship of wilderness ecosystems. Three of the six public uses established by Congress for wilderness areas are science, conservation, and education, which all require sound scientific information. Additionally, wilderness stewardship principles require that management be based on accurate scientific information.

Long-term ecological monitoring systems and physiobiotic inventories are ongoing or are being developed across the country. This course will emphasize interagency and inter-regional consistency of methods for conducting inventories, monitoring, and management of natural resources in wilderness areas and will explore the unique legal and policy opportunities and challenges of conducting these activities in wilderness.

**Who should participate:** Natural resource program managers and others with responsibility for the development and implementation of natural resources inventory, monitoring, and management in wilderness areas.

**Length:** 5 days

**Objectives:** Describe the role of the natural resource monitoring and management community in wilderness stewardship;

Incorporate greater standardization among agencies and across regions in wilderness natural resources stewardship;

Incorporate wilderness stewardship objectives in natural resources management plans and project proposals; and

Demonstrate field techniques most appropriate for conducting natural resources monitoring and management in wilderness areas.

**Availability:** Annually  
**Contact:** Receptionist  
**Arthur Carhart National Wilderness Training Center**  
Missoula, Montana  
**Phone:** 406/243 4682  
**Fax:** 406/243 4717

# Course Application Form

32 Campus Drive #3168  
Missoula, MT 59812-3168  
406/243 4682

Please fax this form to 406/243 4717.

# Arthur Carhart National Wilderness Training Center

Course Name:

Course Dates:

Applicant's Name  
(Last, First):

Applicant's name  
as desired on name tag:

Job Title:

Agency (identify one):

BLM     FS     FWS     NPS  
 STATE     PRIVATE     OTHER

Your Position (identify one):

manager/line officer     staff specialist  
 field technician

Agency Office (identify one):

BLM:     Washington     State     District     Field  
 FS:     Washington     Regional     Forest     District     Research  
 FWS:     Washington     Regional     Refuge  
 NPS:     Washington     Regional/Central     Park

Office:

Office Address:  
(Street address)

City, State

Zip

Region  
(if applicable):

Office Phone: (    )

Office Fax: (    )

E-mail Address:

I concur with the applicant's participation in this course:

Supervisor's signature

Title

Date



## Wilderness Distance Education Courses

### Distance Education Courses

Correspondence courses are offered for graduate and undergraduate credit through the University of Montana College of Forestry and Conservation and are available through self-paced correspondence or through the Internet. *If you are interested in distance education wilderness courses, you must register through the University of Montana.* Please use their Internet site <http://wmdep.wilderness.net> or call 406/243 5346 or complete the application on p. 145. There is a tuition for these courses (as shown on their Web site), and college credit is given.

RECM471

## Wilderness in the American Context

This correspondence course discusses the philosophical origin of the wilderness concept and the themes and values wilderness provides. It also examines the history of the wilderness and conservation movements in America, as well as wilderness in the international context. Managing wilderness as a distinct resource and the non-recreational benefits of wilderness are also discussed. Textbooks: *Wilderness Management*, Hendee and Dawson (2002); *Wilderness and the American Mind*, R.F. Nash; *A Sand County Almanac*, Aldo Leopold; and *The Great New Wilderness Debate*, Callicott and Nelson (1998). College Credit: 4 semester hours, available through the University of Montana, undergraduate or graduate credit.

**Who should participate:** Wilderness management staff or those who work with endangered species, fisheries, fire, or planning in wilderness. This course may be an appropriate baseline course before enrolling in the three other wilderness correspondence courses.

**Length:** At student's pace; 6 months to complete the course.

**Objectives:** Discuss Aldo Leopold's contributions to the development of the conservation profession and National Wilderness Preservation System and the significance of Leopold's land ethic;

Describe the origins of the wilderness ideal and the history of the wilderness movement leading up to and including the Wilderness Act;

Describe the non-recreational benefits of wilderness;

Describe the role of the NWPS in providing continuity in management between agencies; and

Describe the differences in the wilderness management approaches of the Federal public land management agencies.

**Availability:** Always

**Contact:** Lisa Gerloff

College of Forestry and Conservation  
University of Montana

Missoula, Montana

**Phone:** 406/243 5346

**Fax:** 406/243 4845



## Management of the Wilderness Resource

This correspondence course studies ecosystem characteristics and basic principles of wilderness management. Separate chapters discuss management of specific wilderness resources, such as fire, wildlife, cultural, and historical sites; managing nonconforming uses, such as grazing, mining, motorized vehicles, and equipment, and mechanical transport; and geographical information systems. Textbooks: *Wilderness Management*, Hendee and Dawson (2002), and *Ecosystem Management for Parks and Wilderness*, Agee and Johnson (1989). College Credit: 4 semester hours, through the University of Montana for undergraduate or graduate credit.

**Who should participate:** Staff who manage wilderness areas or who work with fire, cultural or historical sites, grazing, or oil drilling in wilderness.

**Length:** At student's pace; 6 months to complete course.

**Objectives:** Describe the principal wilderness resources of the National Wilderness Preservation System;

Discuss the importance of natural processes in the ecosystem;

Describe some current wilderness management issues and their significance; and

Describe the minimum tool concept and its use.

**Availability:** Always  
**Contact:** Lisa Gerloff  
College of Forestry and Conservation  
University of Montana  
Missoula, Montana  
**Phone:** 406/243 5346  
**Fax:** 406/243 4845



## Management of Recreation Resources

This correspondence course explores and discusses how to manage for quality visitor experiences and includes examples of common problems and solutions. Managing to minimize recreational impacts is covered in detail in a separate chapter. Other chapters include wilderness education and information techniques, as well as how to deal with emergencies and law enforcement actions. Textbooks: *Wilderness Management*, Hendee and Dawson (2002), and *Wildland Recreation*, Hammitt and Cole. College Credit: 3 semester hours, through the University of Montana. Currently undergrad only.

**Who should participate:** Staff who manage wilderness areas with significant recreational use.

**Length:** At student's pace; 6 months to complete course.

**Objectives:** Describe situations that can lead to visitor use conflicts;

List methods for monitoring recreational use and trends;

Describe steps to determine visitor impacts; and

List the steps for conducting quality wilderness education programs that guide public use patterns.

**Availability:** Always  
**Contact:** Lisa Gerloff  
College of Forestry and Conservation  
University of Montana  
Missoula, Montana  
**Phone:** 406/243 5346  
**Fax:** 406/243 4845



## Wilderness Management Planning

This correspondence course presents and discusses differences in planning among the four Federal land management agencies. The course explores basic planning concepts, a format for writing a good wilderness management plan, and how to implement a plan. A special discussion of the Limits of Acceptable Change planning system is presented. Textbook: *Wilderness Management*, Hendee and Dawson (2002). College Credit: 3 semester hours, through the University of Montana for undergraduate or graduate credit.

**Who should participate:** Wilderness managers, outdoor recreation planners or comprehensive resource planners, and program managers.

**Length:** At student's pace; 6 months to complete course.

**Objectives:** Describe concepts and ideas for preparing wilderness management plans;

Describe the steps for integrating the intent of the Wilderness Act into a wilderness management plan; and

Define public involvement needs for creating an effective public involvement process.

**Availability:** Always  
**Contact:** Lisa Gerloff  
College of Forestry and Conservation  
University of Montana  
Missoula, Montana  
**Phone:** 406/243 5346  
**Fax:** 406/243 4845

# Course Application Form

College of Forestry and Conservation  
The University of Montana  
Missoula, MT 59812  
406/243 5346 Fax:406/243 4845  
Email: [wmdcp@forestry.umt.edu](mailto:wmdcp@forestry.umt.edu)

# Wilderness Management Distance Education Program

1. Indicate the course(s) you wish to enroll in:

No.	Course Title	Tuition
471 UG	Wilderness in the American Context (4 hrs.) Formerly 495 AB	\$495.00
471 G	Wilderness in the American Context (4 hrs. Graduate Credit)	\$575.00
472 UG	Management of the Wilderness Resource (4 hrs.) Formerly 495 C	\$495.00
472 G	Management of the Wilderness Resource (4 hrs. Graduate Credit)	\$575.00
495 DUG	Management of Recreation Resources (3 hrs.) Formerly 495 D	\$395.00
474 UG	Wilderness Management Planning (3 hrs.) Formerly 495 E	\$395.00
474 G	Wilderness Management Planning (3 hrs. Graduate Credit)	\$455.00

2. Do you wish to take the course for credit? Yes  No

3. Check the book(s) you wish to order:\*

Book Title	471UG	471G	472UG	472G	495D	474UG	474G
Wilderness Management	\$70.00	\$70.00	\$70.00	\$70.00	\$70.00	\$70.00	\$70.00
Wildland Recreation					\$130.00		
The Great New Wilderness Debate	\$36.00	\$36.00					
A Sand County Almanac	\$10.50	\$10.50					
103 Wilderness Laws	\$15.50	\$15.50					
Ecosystem Management for Parks, Wild ...			\$30.00	\$30.00			
Wilderness and the American Mind	\$22.00	\$22.00					
Credit Recording Fee	\$115.00	\$115.00	\$115.00	\$115.00	\$115.00	\$115.00	\$115.00
Course Tuition	\$495.00	\$575.00	\$495.00	\$575.00	\$395.00	\$395.00	\$455.00
Books	\$154.00	\$154.00	\$100.00	\$100.00	\$200.00	\$70.00	\$70.00
Your Total							

\*Prices include shipping and handling \*Book rates may change due to market prices

4. Please provide us with the information below:

Applicant's Name

(Last, First):

Social Security No.

Home Address

City

State

Zip

Daytime Telephone

Agency Affiliation

Email

5. Indicate method of payment:

Payment enclosed and/or SF-182 attached  Enclosed is my check for \$ \_\_\_\_\_

Visa  Mastercard Card # \_\_\_\_\_ Expiration Date \_\_\_\_\_

3 Digit Authorization Code \_\_\_\_\_ Signature \_\_\_\_\_

For other payment arrangements or more information, see contact at the top of this form.



ECS3105

**Wetland Restoration and Management**



This is a basic course in wetland restoration and enhancement in which participants learn to assess wetland functions, develop restoration and enhancement plans, and implement plans on degraded wetlands. The course emphasizes wetland ecology, wildlife needs, enhancement of wetland functions, design and implementation, and monitoring considerations. The course is presented in two phases. Phase I consists of a self-paced workbook to be completed prior to attending the field portion of the class. Phase II provides an on-site training. Depending upon enrollment the course location will be selected to emphasize the following wetland types: bottomland hardwoods, prairie potholes, Carolina bays and flats, northwest freshwater wetlands, and others.

**Who should attend:** Personnel who develop restoration/enhancement plans or who review these plans may attend this course.

**Length:** Phase I – approximately 20 hours. Phase II – 32 hours

**Objectives:** Upon completion of phase I and II, participants will be able to:

Describe ecological processes necessary for wetland restoration and enhancement;

Describe the physical, chemical, and biological processes of a wetland;

Determine the existing and potential functions of a proposed restoration or enhancement site;

Complete a wetland site evaluation and determine associated opportunities and constraints;

Describe the methods used to restore, manage, maintain, and monitor the wetland system; and

With supervision, restore/enhance wetlands in the geographic area of participant's duty station.

**Availability:** Annually  
**Contact:** Jerry Williams  
**Agency:** Natural Resources Conservation Service  
**Phone:** 817/509 3259  
**Online Registration:**  
[www.nedc.nrcs.usda.gov](http://www.nedc.nrcs.usda.gov)

ECS3106

**Hydric Soils for Wetland Delineation**



This course, conducted by the USDA Natural Resources Conservation Service, enables non-scientists to perform hydric soils determinations and field delineations using standard techniques of soil science. It also teaches participants to complete technically accurate documentation. College Credit: 2 semester hours. No tuition for FWS employees.

**Who should attend:** Personnel involved in wetland delineation; wetland creation, conservation, or restoration; mitigation projects; agricultural lands conversions; habitat conservation planning; or wetland botany or vegetation mapping.

**Length:** 5 days/32 hours

**Objectives:** Improve the quality of wetland delineations;

Improve the efficiency and credibility of wetland delineations delivered to the public;

Prepare thorough documentation to reduce the duplication of effort in the number of appeals, litigation, and elevated cases; and

Recognize and correctly apply hydric soil field indicators for normal, disturbed, and problem soils.

**Availability:** Annually  
**Contact:** Bob Rymell  
**Agency:** Natural Resources Conservation Service  
**Phone:** 817/509 3266

ECS3154

**Wetland Restoration, Management, and Compatible Use**

This course is conducted by the USDA Natural Resources Conservation Service and will provide wetland restorationists with information and skills on advanced restoration and enhancement techniques needed to restore high quality wetlands to meet Wetland Reserve Program (WRP) policy. Topics will vary in these sessions by geographic region but will include identification of compatible use practices beneficial to wildlife in grassland and forest settings, identification of contaminants, wetland management, monitoring, and more.

**Prerequisite:** Two years of experience in wetland restoration or having wetland restoration as a major component of your job.

**Who should attend:** Personnel who develop and implement wetland restoration plans and develop compatible use authorizations on a regular basis.

**Length:** 4 days/32 hours

**Objectives:** Define and explain WRP monitoring and management policy;

Define WRP statutory requirements and policy on compatible use practices;

Develop compatible use plans that benefit targeted wildlife and achieve WRP program objectives;

Provide technical guidance to field staff so they can assist landowners with compatible use requests;

List habitat requirements and management practices to benefit migratory birds and other species of concern; and

Locate sources of potential hazardous materials affecting wetland restoration.

**Availability:** Annually  
**Contact:** Jerry Williams  
**Agency:** Natural Resources Conservation Service  
**Phone:** 817/509 3259