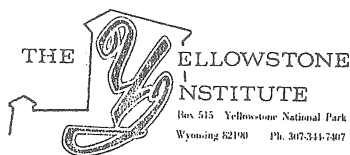


**Reese
Y. I. collection**



**FIELD SEMINAR SCHEDULE
SUMMER, 1976**

21 June **THE BIRDS OF YELLOWSTONE** Mr. Ririe Godfrey

Emphasis will be placed on the development of bird recognition skills and the identification of the bird species of Yellowstone. Discussions of the evolution and behavior of birds and of methods of studying birds. Binoculars useful.
No prerequisites.

1 semester credit (2 with extra work)
undergraduate

RICKS COLLEGE

28 June **THE YELLOWSTONE ECOSYSTEM** Dr. Tim Clark

An investigation of the Yellowstone ecosystem by life communities. Students will participate in designing and implementing a quantitative approach to the analysis of biotic communities.
No prerequisites.

1 semester credit
undergraduate

IDAHO STATE UNIV.

5 July **ROCKS AND LANDSCAPE OF YELLOWSTONE**

Dr. Donald Hyndman
Dr. David Alt

General view of the bedrock geology of Yellowstone with special emphasis on the more recent volcanic activity. Analysis of the modern landscape as it reflects the bedrock geology and expresses the influence of various processes of erosion. Special attention will be directed to modern geologic processes.
No prerequisites, but physical geology would be helpful.

3 quarter credits
undergraduate or graduate with extra work **UNIV. OF MONTANA**

12 July **THE WILDFLOWERS OF YELLOWSTONE**

Dr. Boyd Holdaway

A layman's approach to classification and identification of mountain wildflowers. The terminology and techniques required for the use of identification keys will be explained and practiced. The environmental and aesthetic aspects of

wildflowers will be considered throughout the seminar.
No prerequisites.

2 semester credits
undergraduate

RICKS COLLEGE

12 July THE EARLY PEOPLES OF YELLOWSTONE

Dr. Larry Lahren

A study of the archeological resources of the Yellowstone River valley and the surrounding area. An attempt to infer the population patterns and cultural characteristics of the prehistoric humans of the Yellowstone area.
No prerequisites.

1 semester credit
undergraduate

UNIV. OF WYOMING

19 July THE WILDERNESS IDEA IN AMERICA Dr. Robert Righter

An exploration of man's changing attitudes toward wilderness from ancient civilizations to the present. An attempt to identify the spiritual, ecological, economic, and scientific values associated with wilderness and the individual wilderness experience. Will include a study of the Wilderness Act of 1964.
No prerequisites.

1 semester credit
undergraduate

UNIV. OF WYOMING

19 July TECHNIQUES OF WILDERNESS LIVING

Mr. David Wescott

How to live comfortably out of doors with a minimum of equipment. How to live in the wild in harmony with the natural world and with the least environmental impact. Participants will have opportunity to develop the skills of camp keeping, the use of maps and compass, and outdoor safety and preparedness. Medical clearance required.
No prerequisites.

2 semester credits
undergraduate

RICKS COLLEGE

26 July ECOLOGY OF THE SMALL MAMMALS OF YELLOWSTONE
Dr. Robert Moore

Observation and identification of the small mammals of Yellowstone and their principal habitats. Gathering data to support inferences as to habitat requirements, relative numbers, and food chain relationships of selected small mammals.

No prerequisites, but basic life science would be helpful.

2 quarter credits
undergraduate

MONTANA STATE U.

26 July WATER QUALITY EVALUATION; A TEACHER WORKSHOP
Mr. Thomas Offutt

A field and laboratory workshop in which participants will have opportunity to develop an understanding of stream ecology, to acquire specific investigative skills relative to water quality, to learn to construct field test equipment, and to develop applications for use in future school years. There is an additional fee of \$10.00 for consumable materials. No prerequisites.

2 quarter credits
undergraduate or graduate

UNIV. OF MONTANA

2 August VEGETATIONAL COMMUNITIES AND LARGE MAMMALS
OF YELLOWSTONE Dr. Don Collins

A study of plant community types and large mammal populations as illustrations of basic ecological principles. The ecological niches of the Yellowstone ungulates and large carnivores will be investigated.

No prerequisites, but basic life science would be helpful.

2 quarter credits
undergraduate

MONTANA STATE U.

9 August THE AQUATIC ECOLOGY OF YELLOWSTONE
Mr. John Varley

A study of the fresh-water habitats of Yellowstone with emphasis on the factors which influence the quantity and diver-

sity of the biota of aquatic environments. Fish life histories, behavior, evolutionary adaptations, and roles as consumers and prey will be discussed. The significance of Yellowstone National Park as a refuge for vulnerable native fishes and the impact of man's activities in the area will be explored. Hip boots or waders are required. No prerequisites, but basic life science would be helpful.

2 semester credits
undergraduate

RICKS COLLEGE

9 August WILDERNESS PACKING AND OUTFITTING
Dr. Lynn Speth

Instruction in selecting, training, and caring for pack horses. Methods and problems of trailing a pack string, establishing a camp with horses, and caring for horses while in camp. Environmental impact of horses in wilderness areas and procedures for reducing impact will be discussed. Seminar will begin at Bechler River Ranger Station and terminate at Old Faithful. Medical clearance required. No prerequisites.

2 semester credits
undergraduate

RICKS COLLEGE

16 August THE AESTHETIC CONSERVATION MOVEMENT
Dr. Robert Righter

An exploration of the roots of the aesthetic (as differentiated from the utilitarian) conservation movement by an examination of the ideas of such key figures as Thoreau, Muir, and Leopold. The origins and development of the National Park system as a visible manifestation of the movement. The strengths and weaknesses of the movement and its goals of the present and for the future. No prerequisites.

1 semester credit
undergraduate

UNIV. OF WYOMING

16 August THE YELLOWSTONE FOREST Dr. Richard Clark

Identification and ecological functions of the common trees and shrubs of Yellowstone. Economic and aesthetic values

of each species. Park Service management problems, including the role of fire in the natural world.
No prerequisites.

2 semester credits
undergraduate

RICKS COLLEGE

23 August THE HYDROTHERMAL SYSTEMS OF YELLOWSTONE

Dr. Clayton Nichols

A study of hydrothermal phenomena and the factors which determine their geographical distribution. Geothermal energy and the environmental implications of geothermal resource development.

Prerequisites: physical geology and chemistry.

2 quarter credits
undergraduate

MONTANA STATE U.

30 August A WATERCOLOR WORKSHOP

Mr. Bill Chapman

A presentation of watercolor techniques and practice in their application in recording impressions of the natural world. Advantages and limitations of the watercolor medium. Materials available for participants who do not bring their own. Multi-level presentation.
No prerequisites.

(At present this seminar is non-credit.)

7 September MEASURING COMMUNICATION EFFECTIVENESS OF PUBLIC
INFORMATION CENTERS

Dr. Eldon Baker

Introduction to basic communication theory and information consumption. Definitions, parameters, and functions of communication in the public information context. Philosophies of public information systems. Message environments, including special effects for children and handicapped persons.
No prerequisites, but basic communication would be helpful.

3 quarter credits
undergraduate or graduate

UNIV. OF MONTANA