

Descriptions — Packaging

of Courses

899. **Master's Thesis Research**
Fall, Winter, Spring, Summer. Variable credit. Approval of school.

PARK AND RECREATION RESOURCES PRR

College of Agriculture and Natural Resources

210. **Our National Parks**
Fall, Spring. 3(3-0) Not open to majors.
Heritage, management, and future of U.S. National Parks. Conflicts inherent in preservation of natural and historic resources for public enjoyment.
213. **Leisure and Recreation Resources**
(PRR 344.) Fall, Spring. 3(3-0)
Leisure in relation to park and recreation resources. History and philosophy, significance in modern society, and impact on urban and natural resource developments.
215. **Recreation Programming and Leadership**
(PRR 201.) Fall, Winter. 3(3-0)
Recreation leadership and programming. Recreation program service settings, design and conduct of programs to serve different clientele groups.
300. **Wilderness Survival**
Fall, Winter, Spring, Summer. 3(3-0)
Outdoor skills for utilization of plant and animal materials to provide shelter, fire, signals, water and food in the outdoors. Psychology and attitudes conducive to wilderness survival and appreciation. Field trip required.
301. **Wilderness Survival (TV)**
Fall, Winter, Spring, Summer. 3(3-0)
Credit may not be earned in both PRR 300 and PRR 301.
A television lecture course dealing with the principles and attitudes necessary to promote survival in a wilderness setting.
302. **Environmental Attitudes and Concepts**
Fall. 3(3-0)
History of development of attitudes and values about the environment in western civilization. Wilderness, environmentalism, environmental quality, economic development, conservation. Environmental perception and environment-behavior relationships.
304. **Recreation Planning and Design**
Fall, Spring. 3(3-0) Approval of department.
Basic planning and design concepts applied to recreation areas, facilities, and programs. Planning process, public involvement, population and resource analysis, aesthetic and functional considerations in park design.
310. **Camp Counseling and Administration**
(HPR 300.) Spring. 3(3-0)
Camp counseling techniques, leadership roles and responsibilities, campercraft skills, programming camp activities, organization and administration of youth camps.
315. **Recreation Program Management**
(PRR 313.) Winter, Spring. 4(3-2) PRR 215.
Application of recreation programming and leadership principles to program planning, management and evaluation. Development of recreation programs utilizing leisure education format and small group process.
351. **Park Interpretation and Visitor Information Services I: Principles**
Fall, Winter. 3(3-0)
Communication principles applied to park and recreation resource interpretation and other information services. Principles of audience analysis, brochure and exhibit design, public relations, natural/cultural interpretation, visitor information centers.
362. **Recreation for Special Populations**
(HPR 362.) Fall, Spring. 3(3-0) PRR 215.
Therapeutic recreation, recreation services for special populations. Physical, social, and psychological disabilities as they relate to leisure services. Field trip required.
384. **Junior Proseminar**
(PRR 484.) Fall, Spring. 1(1-0) Juniors.
Seminars on current professional problems and literature.
403. **Fieldwork in Park and Recreation**
Fall, Winter, Spring. 1 to 8 credits.
May reenroll for a maximum of 8 credits. Approval of department.
Fieldwork course in which student acts as a leader under supervision in community park and recreation programs.
422. **Leisure Theory and Philosophy**
(HPR 422.) Fall, Spring. 3(3-0) PRR 213 or approval of department.
Classical and modern leisure theories and philosophies. Personal and societal attitudes toward leisure, work, and recreation. Changing values, leisure and culture, future perspectives.
440. **Park and Recreation Administration**
Winter, Spring. 4(4-0)
Park and recreation organization, administration and policy at municipal, county, and regional level. Field trip required.
- 442A. **Park and Recreation Resource Policy**
(PRR 442.) Spring. 3(3-0) PRR 213 or approval of department. May not receive credit for both PRR 442A and PRR 442B.
History and significance of recreation resource policy in the United States. Policy process, case studies of recreation policy development.
- 442B. **Leisure Services Policy**
(442.) Spring. 3(3-0) PRR 314 or PRR 362. May not receive credit for both PRR 442A and PRR 442B.
History and significance of recreation policy affecting leisure services and special populations in the U.S. Studies of recreation policy development. Professional certification.
444. **Park and Recreation Area Design**
Winter. 4(2-4) PRR 304 or approval of department.
Planning and design principles of space, scale, and circulation applied to the use of park and recreation areas and facilities. Field trip required.
445. **Comprehensive Recreation Planning**
Fall. 4(4-0) PRR 304 or approval of department.
Comprehensive planning techniques for recreation resources at national, state, and local levels. Supply-demand analysis, forecasting, impact assessment, survey methods and citizen input for recreation system planning.
446. **Park and Recreation Area Operations**
Winter, Spring. 3(3-0) Approval of department.
Operations and maintenance of park and recreation areas and facilities. Preparation and implementation of maintenance plans, standards, scheduling, budget estimating. Selection and operation of maintenance equipment, supplies, and materials.
448. **Field Studies in Park and Recreation Administration**
Fall. 3 credits. Approval of department.
Analysis of park, recreation, and tourism areas and facilities. Visits to local, state, federal, and commercial recreation facilities. Conducted off campus with agency assistance. Field trip required.
449. **Recreation Land Management**
Winter. 3(3-0) Not open to majors.
Fundamentals of outdoor recreation resource management. Planning, development, and administration of programs and facilities.
450. **Natural Resource Administration**
Winter. 4(4-0) Seniors; not open to forestry majors. Interdepartmental with Agriculture and Natural Resources and the departments of Fisheries and Wildlife, Forestry, and Resource Development. Administered by the Department of Forestry.
Concepts and methods of administering wildland properties. The legal, economic and social environment. Benefit-cost analysis of management changes. Unit organization, personnel management and accounting. Presents a systems view of administration.
451. **Park Interpretation and Visitor Information Services II: Methods**
Spring. 4(4-0) PRR 351.
Methods used in information services for park and recreation areas. Audiovisual programs, exhibit technology, interpretation issues, interpretive planning and program development. Field trip required.
455. **Natural Resource Economics**
Fall. 4(4-0) Approval of department. Interdepartmental with Agriculture and Natural Resources and the departments of Fisheries and Wildlife, Forestry, and Resource Development. Administered by the Department of Forestry.
Basic economic and political principles and techniques that govern the production and consumption of forest land products, including basic forest valuation procedures.
467. **Therapeutic Recreation Principles**
(HPR 447.) Fall. 3(3-0) PRR 362.
Planning, implementation, and evaluation of therapeutic recreation services. Individual disabilities, review of health care models and related therapies. Field trip required.

468. Therapeutic Recreation Techniques
(HPR 448.) Winter. 3(2-2) PRR 467.
Instructional, intervention, and interaction techniques in therapeutic recreation. Treatment planning, terminology, documentation, and leisure counseling. Field trip required.

470. Commercial Recreation Enterprises
Fall. 4(4-0) EC 201; ACC 230 or approval of department.
Management methods and problems in commercial recreation enterprises with an emphasis on small business.

471. Recreation Products Consumption
Winter. 4(4-0) EC 201; ACC 230 or ACC 202; or approval of department.
Recreation, economic and personality theories of consumption. Specific recreation product industry case studies.

480. Supervised Study
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 10 credits. Approval of department.
Seminars on current problems. Supervised readings. Individual undergraduate research on selected topics.

801. Dimensions of Recreation and Leisure
Fall. 3(3-0) Approval of department.
Concepts of recreation and leisure in the United States and their implications for professional development. Extensive reading into concepts, definitions, values, educational components and historic roots of recreation and leisure.

840. Recreation Economics
Spring. 4(4-0) FOR 809 or approval of instructor. Interdepartmental with the departments of Forestry and Resource Development.
Applications of economic analysis to recreation resource problems including measurement of demand and supply, valuation of recreation resources, determination of economic impact, economic decision making and policy considerations.

842. Park and Recreation Policy
Winter. 3(3-0) Interdepartmental with the Department of Resource Development.
Recreation, leisure and work concepts. Determination of needs for recreation facilities. Factors affecting public and private allocation of resources for provision of needed facilities.

844. Recreation Research Methods
Winter. 4(4-0) Approval of department.
Relate recreation research to broader context of social scientific investigation and to the nature and philosophy of social scientific research. Examine the theoretical and methodological approaches in recreation research.

846. Urban and Regional Recreation Resource Planning
Fall. 4(4-0) Approval of department.
Evaluation and application of recreation planning techniques at urban and regional levels. Analysis of programs, policies, land areas, facilities, and populations as they pertain to leisure service delivery systems.

848. Recreation Resource Law
Spring. 3(3-0)
Legal basis for public recreation. Methods of acquiring recreational resources, including contracts and condemnation procedures. Administrative problems, including zoning, liability, civil rights and law enforcement. Study of cases and statutes.

871. Selected Topics
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 12 credits. Approval of department.
Selected topics in recreation resource planning, administration, management, policy, and research.

880. Special Problems
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 10 credits. Approval of department.
Advanced work for non-thesis projects or advanced individual study in recreation: policy, land use, planning, systems administration and management, economics, recreation forestry, commercial recreation enterprises, recreation and social problems, environmental interpretation, travel and touring, spatial analysis, leisure concepts, research.

899. Master's Thesis Research
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

999. Doctoral Dissertation Research
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 36 credits. Approval of department.

PATHOLOGY PTH

**College of Human Medicine
College of Osteopathic Medicine
College of Veterinary Medicine**

410. General Pathology
Spring. 3(3-0) ANT 316; PSL 432 or concurrently. Interdepartmental with and administered by Medical Technology.
Features of lethal and sublethal cell injury and inflammation and repair process. Definition of the major causes of pathologic change with a consideration of specific associated diseases.

411. Basic Histopathology
Spring. 2(1-2) ANT 420, PSL 432; M T 410 or concurrently. Interdepartmental with and administered by Medical Technology.
Microscopic examination of cell injury and death, inflammation and tissue repair. Pathologic tissue changes in diseases resulting from degenerative changes, abnormal metabolism, neoplasia, immunologic processes, infection, mechanical trauma and malnutrition.

502. Human Pathology I
Winter. 2 to 5 credits. Admission to a college of medicine or approval of department. ANT 560 for College of Osteopathic Medicine students.
Pathologic processes and specific disease syndromes with emphasis on clinical applications. Concepts of disease and pathologic process in selected common diseases or conditions for the beginning medical student with a limited knowledge of anatomy, physiology and biochemistry.

503. Human Pathology II
Spring. 3(3-0) PTH 502.
An introductory study of neuropathology in which vocabulary and concepts of neuromuscular diseases are systematically reviewed. Self-instructional option available.

504. Human Pathology III
Fall. 3(2-2) PTH 503 or approval of department.
A continuation of PTH 503. Diseases of the cardiovascular system, including stress effects, arteriosclerosis and disorders of autonomic and endocrine regulation. Laboratory sessions include the study of histologic sections.

505. Human Pathology IV
Winter. 3(2-2) PTH 504 or approval of department.
A continuation of PTH 504. The systems include: lung, kidney, male genitourinary and bone and joints. In the laboratory sections, gross and microscopic changes in diseased tissues are studied and correlated with lecture material. Separate lab sessions covering pulmonary function tests, acid-base balance and urinalysis are included.

506. Human Pathology V
Spring. 3(2-2) PTH 505 or approval of department.
A continuation of PTH 505. The systems include gastrointestinal tract (including liver and pancreas), female reproductive tract and breast.

507. Human Pathology I
Fall. 6(5-2) Admission to a college of medicine; ANT 540, ANT 543, BCH 512, PSL 500E; or approval of instructor.
General concepts of disease as manifested by response of the human body to insult or injury. Study of disease in the cardiovascular and endocrine systems. Laboratories will emphasize gross and microscopic morphology.

508. Human Pathology II
Winter. 5(4-2) PTH 507.
Diseases of respiratory, gastrointestinal, urinary, and male reproductive systems, skin and bone. Laboratories will emphasize gross and microscopic study of lesions and a problem-solving approach to disorders.

509. Human Pathology III
Spring. 4(3-2) PTH 508.
Diseases of nervous system, muscle, female reproductive system, and blood forming organs. Laboratory sessions will emphasize clinical pathologic techniques and problem solving exercises.

520. Biology of Blood Diseases Laboratory
Spring. 1(0-3) Enrollment in a college of medicine or a graduate program in a biological science; MED 520 concurrently.
Laboratory experience correlating basic science and clinical concepts of hematology.

525. Neuropathology Problem Solving Exercises
Fall, Winter, Spring, Summer. 2(0-4) Medical student or approval of instructor.
Independent study of 24 neuropathology problem solving exercises, including clinical history and brain specimens.