

**PARK AND RECREATION
RESOURCES PRR**

**College of Agriculture and Natural
Resources**

200. Leisure and Society

Fall, Winter, Spring. 3(3-0)

Leisure and recreation as part of daily life. Leisure as a social, psychological and economic force in American culture.

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. 4(3-2)

Recreation leadership and programming. Recreation program service settings, design and conduct of programs to serve different clientele groups.

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

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

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

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 315 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

Spring. 4(4-0) Seniors. 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(3-2) EC 200 or EC 201. 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 institutional principles and techniques that govern the production and consumption of renewable natural resources. Natural resource evaluation, project analysis, and distributional considerations.

466. Natural Resource Planning

Winter. 3(2-2) FOR 455 or R D 417 or approval of department. Interdepartmental with the departments of Forestry and Resource Development. Administered by the Department of Forestry.

Natural resource planning concepts and techniques applicable to area-level and subarea-level planning. Case studies in comprehensive, multiple resource public planning and single resource private planning.

467. Therapeutic Recreation Principles

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

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.

Description — Park and Recreation Resources of Courses

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 consideration.

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 4 credits. May reenroll for a maximum of 10 credits. Approval of department.
 Independent study in recreation, leisure, recreation travel, and tourism.

889. Applied Professional Project
 Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 4 credits. PRR 844, approval of department.
 Master's degree Plan B research paper.

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.

501. Introduction to Human Pathology
 Spring. 2(1-2) Admission to the College of Human Medicine and ANT 543; or approval of department.
 Pathologic processes and specific disease syndromes with emphasis on clinical applications. Concepts of disease. Pathologic processes in selected common diseases or conditions.

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.

507. Human Pathology I
 Fall. 5(4-2) PTH 501.
 Diseases of the cardiovascular and endocrine systems and blood forming organs. Laboratory sessions will emphasize gross and microscopic morphology and clinical pathologic techniques.

508. Human Pathology II
 Winter. 4(3-2) PTH 501.
 Diseases of the respiratory, gastrointestinal, urinary and male reproductive systems. Laboratory sessions will emphasize gross and microscopic study of lesions and a problem solving approach to disorders.

509. Human Pathology III
 Spring. 2(1-2) PTH 501.
 Diseases of female reproductive system, bone and skin. Laboratory sessions will emphasize gross and microscopic study of lesions.

510. Human Pathology IV
 Spring. 2(2-0) PTH 501.
 Diseases of nervous system and muscle. Problem solving exercises will be utilized.

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.

540. Introduction to Laboratory Medicine
 (OST 551.) Winter. 2 credits. ANT 560, BCH 501, PTH 502.
 Introduction to laboratory medicine leading to proficiency in patient evaluation and diagnosis through understanding of common pathologies and basic laboratory procedures in blood, urine and feces analysis.

550. Veterinary Pathology
 Fall. 5(3-4) Second year Veterinary Medicine students or approval of department.
 Principles of pathology, including causes of disease, disturbances of cell growth and metabolism, necrosis, circulatory changes, inflammation and neoplasia.

552. Veterinary Clinical Pathology
 Winter. 4(3-3) Fifth-term Veterinary Medicine students or approval of department.
 Technical aspects, principles and interpretation of selected laboratory procedures in hematology, chemistry, cytology and related areas.

590. Special Problems in Pathology
 Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits if different topics are taken. Admission to a professional program in the College of Osteopathic Medicine or Human Medicine; approval of department.
 Each student will work under direction of a faculty member on an experimental, theoretical or applied problem in pathology.

592. Special Problems in Veterinary Pathology
 Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Admission to the professional program in the College of Veterinary Medicine.
 Each student will work under direction of a faculty member on an experimental, theoretical or applied problem in pathology.

608. Pathology Clerkship
 Fall, Winter, Spring, Summer. 3 to 17 credits. May reenroll for a maximum of 17 credits. Grade P in all courses offered in terms 1 through 8.
 Anatomic and clinical pathology, with emphasis on clinical-pathological correlations. Conducted in the pathology departments of affiliated hospitals.

609. Laboratory Medicine Clerkship
 Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12 credits. Grade P in all courses in terms 1 through 8.
 Current laboratory procedures. Correlation of data from patients with clinical disease, to morphologic abnormalities and altered pathophysiology.