

840. Selected Topics
Fall, Winter, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 12 credits if different topics are taken. Approval of department.

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

201. Social Recreation and Game Leadership
(HPR 201.) Fall. 3(2-3) Approval of department.
Methods, materials, and practice in conducting party programs, indoor games, and celebrations for large and small groups. Games using special equipment commonly employed in resorts and community centers.

300. Wilderness Survival
Fall, Winter, Spring, Summer. 4(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)
Beliefs and attitudes toward land by primitive man and ancient civilizations. Effects of Muir, Thoreau, and others on man/land relationships. Industrialism and environmental quality. Current environmental controversy. Field trip required.

304. Designs for Recreation: Nature and Man
Fall, Spring. 3(3-0) Approval of department.
Design strategies are used to demonstrate relationships between characteristics of the environment and man's use of it. Integration of work, leisure, and recreation uses within environmental potentials and limits is emphasized.

310. Camp Counseling
(HPR 300.) Spring. 3(2-3)
Orientation and preparation for job. Organization of activities and special programs. Group leadership responsibilities. Development of camp counseling techniques.

313. Recreation and Youth Organization Programs
(HPR 303.) Winter. 4(4-0) Sophomores.
Development and conduct of special recreation events in community and youth organization programs including civic and youth centers, agency operation, adult and senior citizen activities.

344. Leisure and Recreation Resources
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.

351. Environmental Interpretation I: Principles
Fall, Winter. 3(3-0)
Philosophy, needs, types, and uses of information services in private, municipal, county, state and federal park and recreation areas. The role of the park interpreter (naturalist).

362. Introduction to Therapeutic Recreation
(HPR 362.) Fall. 3(3-0) Recreation major or approval of department.
Philosophical and theoretical foundations of therapeutic recreation, overview of populations, type and nature of settings and services and information related to concepts of delivery and resources available.

370. Playground and Day Camp Administration
(HPR 370.) Winter, Spring. 3(3-0) Approval of department.
Organization and administration of playground and day camp programs; equipment and areas, supplies and maintenance; staff selection and training; policies, records and legal responsibilities.

400. Camp Administration
(HPR 400.) Fall. 3(3-0) PRR 310 or approval of department.
Organization and administration of public, semipublic, and private camps; their program requirements and standards. Equipment, camp sites, budgets, and staff.

401. Organization and Administration of Community Recreation
(HPR 401.) Winter, Spring. 3(3-0) PRR 370, PRR 422, HPE 404.
Development of the recreational movement in respect to leisure time. Community recreation programs. State and national acts. Principles and practices in recreational administration.

402. Student Leadership in Recreation
(HPR 402.) Summer. 3 to 6 credits. May reenroll for a maximum of 6 credits.
Student will act as a camp counselor or playground leader under supervision at an approved camp or playground. Reports required of student periodically.

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. The Theory and Philosophy of Recreation
(HPR 422.) Fall, Winter, Spring. 3(3-0)
Philosophy and psychology of play. Types of play program, program building, the play teacher.

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.

442. State and Federal Recreation Resource Policy
Winter. 3(3-0)
Origin, development and significance of public policy in recreation resource development in the United States with emphasis at state and federal levels. Field trip required.

444. Park and Recreation Area Design
Fall, Winter. 4(2-4) PRR 304; HRT 211 or HRT 212, or BOT 318 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, Winter. 4(4-0) EC 200, PRR 344 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 Area Operations
Winter, Spring. 3(3-0) Approval of department.
Problems in operations and maintenance of park and recreation areas and facilities. Personnel practices, budgeting, and maintenance schedules. Selection and adaptability of maintenance equipment. Field trip required.

448. Field Studies in Park Administration
Fall. 3 credits. Approval of department.
Investigation and analysis of outstanding park and recreation programs. Visits to areas under local, state, and federal jurisdiction. Evaluation of administrative practices, area management, and operation policies. Conducted as a traveling class with agency assistance.

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
Fall. 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 wild-land 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. Environmental Interpretation II: Methods and Devices
Spring. 4(3-1) PRR 351.
Methodology and equipment used in information transmission in natural, historic, and scenic areas. Site selection and development criteria for natural resource interpretation.

**Descriptions – Park and Recreation Resources
of
Courses**

452. Sky Interpretation
Spring 3(2-2) PRR 351 or approval of department.

Observations of celestial objects and phenomena; past and present concepts of the sky; and procedures and materials for interpreting the sky.

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. Principles of Therapeutic Recreation
(HPR 447.) Winter. 3(3-0) PRR 362.

Basic principles and procedures related to the planning, conducting and evaluation of Therapeutic Recreation services. Activity analysis, assessment and treatment plans are presented in depth.

468. Techniques in Therapeutic Recreation
(HPR 448.) Spring. 3(2-2) PRR 467.

Presentation of a variety of instructional, intervention and interaction techniques used when working with special populations in recreation.

469. Professional Issues and Trends in Therapeutic Recreation
(HPR 449.) Winter. 2(2-0) PRR 468.

Concepts of professionalism including current trends and issues, ethical and organizational considerations. Interpretation of the field and procedures of employment will be covered.

470. Commercial Recreation Enterprises
Fall. 4(4-0) EC 201; AFA 202 or approval of department.

The planning, design, impact, and natural resource base of privately-owned outdoor recreation businesses.

471. Recreation Products Consumption
Winter. 4(4-0) PRR 470 recommended; EC 201, AFA 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.

484. Senior Proseminar
Winter. 1(1-0) Senior majors.

Seminars on current professional problems and literature.

495. Recreation Management Practicum
(HPR 495.) Fall, Winter, Spring, Summer. 12(1-34) to 18(1-52) Senior recreation major and approval of department. Prerequisite courses dependent upon recreation emphasis.

Application of academic experiences to a professional recreation setting through an extended period of placement. Incorporating leadership, planning, organization, and evaluation of programs within the professional recreation setting.

801. Dimensions of Recreation and Leisure
Fall. 3(3-0) PRR 344 or 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.

Application 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.

850. Development of Water Recreation Resources
Winter. 3(3-0) Approval of department.

Administration, research, design, and construction of water recreation facilities. Policy issues, use conflict, and fiscal planning reviewed in light of interagency relationship and legislative mandate.

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**

404. General Pathology
Fall, Spring. 5(3-6) ANT 420, Junior Medical Technology majors, or approval of department.

407. Clinical Pathology
Winter, Summer. 3(3-0) or 5(3-4) Approval of department.
Theory and technics in hematology and coagulation.

408. Clinical Pathology
Fall, Spring. 3(3-0) or 5(3-4) Approval of department.
Immunohematology, urinalysis, and topics in blood chemistry.

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.