817. Instrumental Analysis of Packaging Materials
Fall of even-numbered years. 4(3-2)
P: PRR 320
Spectrophotometric, chromatographic, and other methods of analysis applied to packaging. Material identification and characterization. Size, shape, and structure of materials. QA: PRR 390

200. Leisure and Society
Fall, Spring, Summer. 3(3-0)
Leisure as a social, psychological, political, economic, and cultural force in the United States. QA: PRR 200

210. Our National Parks and Recreation Lands
Fall, Spring, Summer. 3(3-0)
Scope and history of federal recreation lands. Comparisons of national parks to other federal lands. Recreation and management in other nations. Future federal land management options. QA: PRR 210

213a. Introduction to Parks, Recreation, and Leisure
Fall, Spring, Summer. 3(3-0)
P: PRR 215, PRR 320
Tourism and recreation services and resources. Historical and philosophical foundations. Management and development, planning, and operations of recreation agencies. QA: PRR 314

311. Recreation and Natural Resources Communication
Fall. 3(3-0)
Communication, including oral, written, and electronic. Materials and design of presentation. QA: PRR 351

362a. Recreation for Special Populations
Fall. 3(3-0)
P: PRR 215. R: Not open to freshmen.
Recreation services and programs for special needs populations. QA: PRR 390

372a. Management of Park and Recreation Agencies and Organizations
Spring. 3(3-0)
Management of recreation agencies and organizations. QA: PRR 390

393a. Professional Seminar
Fall, Spring. 1(0)
P: PRR 275. R: Open only to majors in Park and Recreation Resources Management. Linkage of field work and internship. Integration of course work with professional practice. QA: PRR 393
Courses are subject to revision and final approval.

Courses:

475*. Evaluation in Parks and Recreation
Fall, Spring, 3(3-0)
P: FRR 370 and STT 200 or STT 201 or PSY 295 or GEO 427.
R: Seniors and above.
Evaluation concepts, approaches and types. Utilization of evaluation processes in management and administrative functions. Application of evaluative research methods and data collection techniques. Analysis, interpretation, and presentation of data.
QP: FRR 215, PSY 215/GEO 6032-
QA: FRR 430

485*. Legal Aspects of Parks, Recreation, and Sport
Fall, 3(3-0)
P: FRR 441. R: Open only to seniors and graduate students.
Legal concepts in management and operation of public and private programs, areas and facilities. Tort liability and risk management planning. Rights and behavior constraints of clientele. Legal foundations of authority.
QP: FRR 440 QA: NEW

490*. Independent Study
Fall, Spring, 1.0-4.0 May enroll for a maximum of 6 credits.
P: FRR 215, FRR 320. R: Not open to freshmen and sophomores. Approval of department; application required.
Individualized readings and research compatible with student's interests and abilities under the guidance of a faculty member.
QP: FRR 215, FRR 320 QA: FRR 490

491*. Special Topics in Park and Recreation Resources
Fall, Spring, 1.0-4.0 May enroll for a maximum of 6 credits.
P: FRR 215; FRR 320. R: Juniors and above.
Group studies for advanced undergraduate students having special interests in Park and Recreation Resources.
QP: FRR 215 FRR 320

815*. Park and Recreation Program Services
Fall, 3(3-0)
R: Graduate
Conception of theory of leisure and recreation. Role and function of delivery systems in communities. Development of the program planning process and provision of recreation services to diverse groups.

840*. Recreation and Tourism Economics
Economics, 3(3-0)
R: Graduate
Use of economic concepts in making public and private sector recreation and tourism decisions. Non-market valuation techniques, regional economic impact, demand, supply, forecasting consumption trends, economics of finance and benefit cost analysis.
QP: FRR 840

841*. Park and Recreation Administration and Policy
Fall, 3(3-0)
R: Graduate Students
Administration and management of park and recreation services for communities in changing urban and rural environments. Policy development and evaluation. Planning, financing, staffing, operating and evaluating organizational structures.
QP: FRR 841

844*. Nature of Inquiry in Recreation, Parks and Tourism
Fall, 3(3-0)
R: Graduate Standing
Comparative review of recreation research methods and techniques. Assessment of application of research to recreation management problems and decision making.
QP: FRR 844

848*. The Law and Leisure Services Spring, 3(3-0)
R: Graduate Standing
QA: FRR 848

870*. Marketing Park, Recreation and Natural Resources
Fall of odd-numbered years, 3(3-0)
R: Graduate Standing
Marketing concepts as applied to parks, recreation and natural resource organizations. Emphasis on strategic rather than tactical marketing. Illustrations of how marketing concepts and methods can influence and facilitate organizations.
QA: FRR 871

874*. Leisure, Travel and Tourism
Spring, 3(3-0)
R: Graduate Standing
Principles and concepts of travel and tourism, drawing upon disciplinary research and current studies on recreation, tourism and leisure. Focus on integration of leisure, recreation and tourism, particularly resource-based tourism behavior.
QA: FRR 871

875*. Integrated Approach to Current Park and Recreation Problems
Spring, 3(3-0)
R: Graduate Standing
An integrated interdisciplinary case study approach to current park and recreation related policy, planning, and management problems.

890*. Selected Topics
Fall, Spring, 1.0-6.0 May enroll for a maximum of 6 credits.
Selected topic in recreation, parks, leisure and tourism. Planning, administration, problems of resource management, recreation and tourism policy, aging and leisure.

891*. Special Problems
Fall, Spring, 1.0-6.0 May enroll for a maximum of 6 credits.
R: Graduate
Independent study in parks, recreation, leisure, and tourism topics and problems.

892*. Park and Recreation Resources Seminar
Spring, 1.0-6.0 May enroll for a maximum of 2 credits.
R: Graduate
Current policy issues, problems and research in Parks, Recreation and Tourism.

899*. Master's Thesis Research
Fall, Spring, 1.0-6.0 May enroll for a maximum of 6 credits.
R: Graduate M.S. Students in Thesis Program

944*. Advanced Research Methods
Fall, 3(3-0)
R: Graduate
Applications of advanced and specialized research methods to problems in recreation and tourism research. Current measurement, sampling, design, and statistical problems in leisure research.

999*. Doctoral Dissertation Research
Fall, Summer, 1.0-24.0 May enroll for a maximum of 24 credits.
R: Graduate FRR, Ph.D. Level Students

PARK AND RECREATION RESOURCES

PATHOLOGY

542. Basic Principles of Pathology
Spring, 3(3-0)
R: Graduate
Principles of pathology, including causes of disease, disturbances of cell growth and metabolism, necrosis, circulatory changes, inflammation and neoplasia.

550*. Veterinary Pathology
Fall, 3(3-0)
P: Completion of Year 1 of the College of Veterinary Medicine. R: Year 2 College of Veterinary Medicine Veterinary Medicine none
Principles of pathology, including causes of disease, disturbances of cell growth and metabolism, necrosis, circulatory changes, inflammation and neoplasia.

551*. General Pathology
Spring, 3(3-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none
Principles of general pathology and host responses to injury, including cell degeneration, necrosis, disturbances of growth and development, neoplasia, circulatory disturbances and inflammation.

552*. Veterinary Clinical Pathology
Fall, 3(3-0)
P: Completion of Year 1 of the College of Veterinary Medicine. R: Year 2 College of Veterinary Medicine Veterinary Medicine none
Technical aspects, principles and interpretation of selected laboratory procedures in hematology, chemistry, cytology and related areas.

553*. Clinical and Systematic Pathology
Fall, 5(4-2)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none
Clinical and anatomic pathology of the various body systems, hematology, pathology of hematopoietic, lymphatic, digestive, urinary, respiratory, integumentary, cardiovascular, nervous, reproductive, musculoskeletal, endocrine, ocular and otic systems.

558*. Poultry Pathology Clerkship
Spring, 3(3-0)
P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
Each student will work under the direction of a faculty member on an experimental, theoretical or applied problem.

611*. Histopathology Clerkship
Fall, 2(1-1)
P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
Supervised instruction in the examination and interpretation of histologic lesions caused by animal diseases.

630*. Diagnostic Pathology Clerkship
Fall, Spring, Summer, 3(3-0)
P: Completion of Year 3 of the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none
Necropsy, pathological examination and clinical pathology with emphasis on interpretation of gross findings and laboratory data.

651*. Veterinary Clinical Pathology Clerkship
Fall, Summer, 3(3-0)
P: Completion of Year 3 of the College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none
Concepts in laboratory interpretation and diagnosis.