PARK AND RECREATION RESOURCES

475*. Evaluation in Parks and Recreation

Fall. 3(3-0) P: PRR 370 and STT 200 or STT 201 or

PSY 295 or GEO 427. R: Seniors and above. Evaluation concepts, approaches and types. Utilization of evaluative processes in management and adminis-trative functions. Application of evaluative research methods and data collection techniques. Analysis, interpretation, and presentation of data.

QP: PRR 215 PSY 215GEO 427 QA QA: PRR 430

485*. Legal Aspects of Parks, Recreation, and Sport Fall. 3(3-0) P: PRR 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 au-

QP: PRR 440 QA: NEW

490*. Independent Study

Fall, Spring, Summer. 1(4-1) May reenroll for a maximum of 6 credits. P: PRR 215, PRR 320. R: Not open to

freshmen and sophomores. Approval of department; application required.

Individualized readings and research compatible with students' interests and abilities under the guidance of a faculty member. QP: PRR 215 PRR 320

QA: PRR 480

Special Topics in Park and 491*. Recreation Resources

Fall, Spring. 1 to 4 credits. May reenroll for a maximum of 6 credits. P: PRR 215; PRR 320 R: Juniors and

Group studies for advanced undergraduate students having special interests in Park and Recreation Resources. QP: PRR 215 PRR 320

815*. Park and Recreation Program

Services Fall. 3(3-0) R: Graduate

Concepts, theories, philosphies of leisure and recreation. Role and function of delivery systems in communities. Management of the program planning process and provision of recreation services to diverse

840*. Recreation and Tourism Economics

Fall. 3(3-0)

R: Graduate

Uses 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. QA: PRR 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. QA: PRR 871

Nature Of Inquiry In Recreation, Parks and Tourism 844*.

Spring. 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. QA: PRR 844

848*. The Law and Leisure Services

Spring. 3(3-0) R: Graduate Standing

Risk control. Legal audits. Human rights mandates. Legal information systems. Contracts and participant forms. Intentional tort and negligence concepts. Personnel legal processes. QA: PRR 848

Marketing Park, Recreation and Natural Resources 870*.

Fall of odd-numbered years. 3(3-0) R: Graduate

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: 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 creation, tourism and leisure. Focus on integration of leisure, recreation and tourism, particularly resource based tourism behavior. QA: PRR 871

Integrated Approach to Current Park and Recreation Problems 879*.

Spring. 3(3-0) P: PRR 840, PRR 841 R: Graduate An integrated multi-disciplinary case study approach to current park and recreation related policy, plan-ning, and management problems.

Selected Topics 890*

Fall, Spring, Summer. 1(6-1) May reenroll for a maximum of 9 credits.

Selected topics in recreation, parks, leisure and tour-ism. Planning, administrative problems, resource management, recreation and tourism policy, aging and

891*. Special Problems

Fall, Spring, Summer. 1(6-1) May reenroll for a maximum of 9 credits. R: Graduates

Independent study in parks, recreation, leisure, and tourism topics and problems

892*. Park and Recreation Resources Seminar

Fall, Spring. 1(6-1) May reenroll for a maximum of 2 credits. R: Graduates

Current policy issues, problems and research in Parks, Recreation and Tourism.

Master's Thesis Research 299*

Fall, Spring, Summer. 1(6-1) May reenroll for a maximum of 8 credits. R: Graduate M.S. Students in Thesis

Program

944* Advanced Research Methods

Fall. 3(3-0)

P: One statistics course, one research methods course. R: Graduate

Applications of advanced and specialized research methods to problems in recreation and tourism re-search. Current measurement, sampling, design, and statistical problems in leisure research.

Doctoral Dissertation Research 999*

Fall, Spring, Summer. 1(24-1) May reenroll for a maximum of 24 credits. R: Graduate PRR, Ph.D. Level Students

PATHOLOGY

PTH

Basic Principles of Pathology

Spring. 2(-) R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Fundamental pathologic processes; clinical applica-

tions. 550*.

Veterinary Pathology Fall. 4(3-3) 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.

General Pathology

Spring. 3(2-2)
P: Admission to the College of Veterinary
Medicine R: College of Veterinary Medicine Veterinary Medicine none

Principles of generap pathology and host responses to injury, including cell degeneration, necrosis, distur-bances of growth and development, neoplasia, circula-tory disturbances and inflammation.

552*. Veterinary Clinical Pathology Fall. 3(2-3)

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 Systemic 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, cardiocascular, nervous, reproductive, musculo-skeletal, endocrine, ocular and otic systems.

592*. Poultry Pathology Clerkship Spring. 2(-) 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.

621*.

Histopathology Clerkship Fall. 2(·) 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 dis-

630*. Diagnostic Pathology Clerkship
Fall, Spring, Summer. 3(·) May
reenroll for a maximum of 6 credits.
P: Completion of semesters 1-5 of the
College of Veterinary Medicine. R: College of Veterinary Medicine none

Necropsy, surgical pathology and clinical pathology with emphasis on interpretation of gross findings and laboratory data.

651". Veterinary Clinical Pathology

Clerkship
Fall, , Summer. 3(-)
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.

PATHOLOGY

652*. Veterinary Necropsy Clerkship

Fall, Spring, Summer. 2(-)
P: Completion of Year 3 of the College of

Veterinary Medicine. R. Year 4 College of Veterinary Medicine Veterinary Medicine none

Supervised necropsy and interpretation of findings.

656*. Problems in Veterinary Necropsy Clerkship

Spring. 2(-) P: Completion of Year 3 of The College of Veterinary Medicine. R: Year 4 College of Veterinary Medicine Veterinary Medicine none Problems related to necropsy and the interpretation of findings.

851*. Advanced General Pathology

Fall. 3(3-0)

P: Approval of Department
Fundamental concepts of cell injury, inflamation, and oncogenesis; emphasis on mechanisms of disease

852*. Advanced General Pathology

Laboratory Fall. 1(00-02)

Histopathologic and ultrastructural study of general morphologic patterns of inflammation cell injury and neoplasm.

853*. Advanced Systemic Pathology

Spring. 4(3-2)
P: Approval of department
Pathological aspects of the nervous, endocrine, cardiovascular, respiratory, urinary, genital, musculoskele-tal, integumentary and special sense systems.

854*. Advanced Clinical Pathology

Spring of odd-numbered years.

3(03-Ŏ0)

P: Proir courses in hematology and clini-

cal chemistry. Dept approval Veterinary hematology including anemias leukocyte responses and hemostasis. Clinical chemistry including tests to evaluate various organs.

855*. Proseminar

Summer of odd-numbered years.

2(02-00)

P: Approval of Department

Instruction in preparation, editing and review of research manuscripts and grants. Reproduction, presentation and critiquing of oral presentations. Thesis preparation. Illustrations of research data. Philosophy and methods of research.

Pathotoxicology 856*.

Summer of even-numbered years.

3(03-00)

P: One graduate level course in pathology

or approval of instructor Pathologic changes in tissues of animals used in toxicologic studies. Clinical pathologic assessments. Gross, histologic and ultrastructural changes in organ systems.

857*.

Correlative Diagnostic Pathology Fall, Spring, Summer. 3(00-06) May

reenroll for a maximum of 6 credits.

P: Approval of Department

Diagnosis of animal diseases by necropsy, biopsy or clinical pathology; Empahsis on correlation of findings with history, laboratory data and morphologic findings; compilated and formal presentation of findings.

890*.

Problems in Veterinary Pathology Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12

credits.

P: Approval of Department

Each student will work under the direction of a faculty member on an experimental, theoretical or applied problem in veterinary pathology

891*.

Problems in Pathology
Fall, Spring, Summer. 1 to 12 credits.
May reenroll for a maximum of 12 credits.

P: Approval of Department

Each student will work under the direction of a faculty member on an experimental, theoretical or applied problem in pathology

892*. Pathology Seminar

Fall, Spring. 1(01-00) May reenroll

for a maximum of 3 credits.
P: Approval of department
Presentation and discussions by departmental graduate students, faculty or outside speakers on current topics in pathology

899* Master's Thesis Research

Fall, Spring, Summer. 1 to 10 credits. May reenroll for a maximum of 10

credits.

P: Approval of Department
Individual work on research problems for the masters degree in pathology

999*. Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 99

credits. P: Admission to Doctoral Program in

Pathology Individual research directed towards a dissertation for the doctoral degree in pathology.

PEDIATRICS AND HUMAN DEVELOPMENT

 \mathbf{PHD}

523 Genetics for Medical Practice

Summer. 1(1-0) Interdepartmental with the Department(s) of

Biochemistry,.

R: Graduale-professional students in colleges of Human and Osteopathic Medicine.
Basic principles of genetics for medical students.

524 Genetics Clinic

Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8

P: PHD 523 R: Graduate-professional students in colleges of Human and Osteopathic Medi-

cine. Role of genetics in health care delivery under the direction of a faculty member.

Special Problems in Human

Development

Fall, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 12

credits.

R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Work under the direction of a faculty member on an experimental, theoretical, or applied problem.

600*. Pediatric Specialty Clerkship

P: Completion of preclinical CHM curriculum. R: Open only to graduate-professional students in College of Human Medicine.

Multidisciplinary approach to children and their families in a health care setting. Integrated biological, behavioral, and clinical sciences in assessing and planning children's health care needs. QA: PHD 600

601*. Human Development and Pediatric Sub-specialties(MTC)

Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits. Interdisciplinary with the

Department(s) of . P: PHD 600 R: Grad Professional Students in College of Human Medicine Elective experience in selected clinical, behavioral,

and basic sciences related to pediatrics and human development

602*. Ambulatory Pediatrics

Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits.

P. PHD 600. R: Open only to graduate professional students in College of Human Medi-

Clinical experience in outpatient and community setting involving ongoing child health care. QA: PHD 600

603*. Pediatric Infectious Diseases Clerkship

Foll, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits. P: PHD 600. R: Open only to grad-uate-professional students in College of Human Medi-

cine. Combines office, clinic, and inpatient experiences in evaluation and managing pediatric patients with infectious diseases.

604*. Neonatology

QA: PHD 611

Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits. P: PHD 600 R: Grad Professional Stu-

dents in College of Human Medicine Clinical experiences involving modern neonatal techniqus and care patterns for the neonate including follow up

605*. Pediatric Cardiology Clerkship Fall, Spring, Summer. 6 to 12 credits

in increments of 6 credits. May reenroll for a maximum of 12 credits.

P: PHD 600. R: Open only to graduate-professional students in College of Human Medicine.

cine.

Office, clinic, and hospital experience in diagnostic and therapeutic pediatric cardiology including special diagnostic procedures.

606*. Pediatric Endocrinology and Metabolism Clerkship

Metabolism Clerkship
Fall, Spring, Summer. 6 to 12 credits
in increments of 6 credits. May
reenroll for a maximum of 12 credits.
P: PHD 600. R: Open only to graduate-professional students in College of Human Medi-

cine_

Clinic and hospital experience in evaluating patients with endocrine and metabolic disorders.

607*. Pediatric Hematology and Oncology Clerkship

Fall, Spring, Summer. 6 to 12 credits in increments of 6 credits. May reenroll for a maximum of 12 credits. P: PHD 600. R: Open only to grad-uate-professional students in College of Human Medi-

cine.

Clinical experience in evaluating and managing pediatric patients with common hematologic and oncologic