Descriptions—Park, Recreation and Tourism Resources of Courses

890. Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 7 credits in all enrollments for this course. Supervised individual study in an area of parks, recreation, leisure, or tourism.

891. Selected Topics
Fall, Spring, Summer. 3 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. Selected topics in park and recreation resources of current interest and importance.

892. Park and Recreation Resources Seminar
Fall, Spring. 1 to 2 credits. A student may earn a maximum of 2 credits in all enrollments for this course. Current policy issues, problems and research in parks, recreation and tourism.

899. Master's Thesis Research
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to graduate students in Park and Recreation Resources. Approval of department.

923. Advanced Environmental and Resource Economics
Spring of even years. 3(3-0) Interdepartmental with Agricultural Economics; Economics; Forestry; and Resource Development. Administered by Agricultural Economics. P: (AEC 829 and EC 805)

Advanced economic theory of environmental management and policy. Treatment of externalities and market and non-market approaches to environmental improvement. Topics in conservation and sustainable economic growth. Applications to research and policy.

925. Environmental and Resource Economics Research
Spring of odd years. 3(3-0) Interdepartmental with Agricultural Economics; Forestry; Resource Development; and Economics. Administered by Agricultural Economics. P: (AEC 829 and EC 805)

Topics such as contingent or non-market valuation, institutional analysis, pollution prevention, environmental quality and location, recreational demand modeling, and environmental risk management. Research process in environmental and resource economics. SA: AEC 99H

944. Advanced Research Methods
Summer. 3(3-0): P: PRR 844.

Applications of advanced and specialized research methods to problems in recreation and tourism. Measurement, sampling, and research design.

999. Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Ph.D. students in Park and Recreational Resources.

PATHOLOGY

Department of Pathology
College of Veterinary Medicine

525. Neuropathology Problem Solving Exercises
Fall, Spring, Summer. 20(4-0) R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. Independent study of 24 neuropathology problem solving exercises.

542. Basic Principles of Pathology
Spring. 2 credits. R: Graduate-professional students in colleges of Human and Osteopathic Medicine. Fundamental pathologic processes; clinical applications.

551. General Pathology
Spring. 3(2-2) R: Completion of 1 semester of the graduate-professional program in the College of Veterinary Medicine. Host responses to injury, including cell degeneration, necrosis, disturbances of growth and development, neoplasia, circulatory disturbances and inflammation.

553. Clinical and Systemic Pathology
Fall, Spring. 2(0-4) R: Completion of 2 semesters of the graduate-professional program in the College of Veterinary Medicine. Hematology. Pathology of hematopoietic, lymphatic, digestive, urinary, respiratory, integumentary, cardiovascular, nervous, reproductive, musculoskeletal, endocrine, ocular, and otic systems.

608. Pathology Clerkship
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. Anatomic and clinical pathology with emphasis on clinical-pathological correlation. Conducted in pathology departments of affiliated hospitals.

699. Laboratory Medicine Clerkship
Fall, Spring, Summer. 1 to 8 credits. A student may earn a maximum of 16 credits in all enrollments for this course. R: Open only to graduate-professional students in College of Human Medicine. FMP 602, FMP 608, MED 608, PHD 600. For graduate-professional students in College of Osteopathic Medicine: Completion of Units I and II. R: Open only to graduate-professional students in College of Human Medicine or Osteopathic Medicine. Laboratory procedures. Correlation of laboratory data with morphologic abnormalities in patients with pathophysiology.

630. Diagnostic Pathology Clerkship
Fall, Spring. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P: Completion of semester 5 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in PTH 651 or PTH 632. Necropsy and surgical and clinical pathology. Interpretation of gross findings and laboratory data.

631. Necropsy Clerkship
Fall, Spring. 3 credits. P: PTH 630. R: Completion of 5 semesters of the graduate-professional program in the College of Veterinary Medicine. Supervised necropsy. Interpretation and presentation of findings.

632. Problems in Veterinary Pathology
Fall, Spring. Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Completion of 5 semesters in the graduate-professional program in the College of Veterinary Medicine. Approval of department. Supervised projects involving gross pathology, histopathology, clinical pathology, or molecular pathology.

633. Transfusion Medicine
Fall, Spring. 3 credits. R: Completion of 5 semesters of the graduate-professional program in the College of Veterinary Medicine. Management of blood donors, blood banking, and cross match technologies. Administration of blood components. Blood typing in large and small animals.

812. Advanced Clinical Chemistry
Spring of even years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. P: BCH 462, MT 414, MT 416. Biochemical basis of selected pathologic conditions including inborn errors of metabolism, endocrine and other genetic disorders. Emphasis on current diagnostic techniques.

820. Advanced Human Hematology
Fall of even years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. P: MT 422. Advanced clinical hematology in hemostasis, mechanisms and morphological pictures. Emphasis on laboratory tests and interpretation of results.

830. Concepts in Molecular Biology
Spring of odd years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. P: One course in Biochemistry or concurrently. Techniques and theories of molecular biology, nucleic acid synthesis and isolation, enzymatic digestion and modification, electrophoresis, hybridization, amplification, library construction, and cloning.

840. Advanced Hemostasis
Fall of odd years. 2(2-0) Interdepartmental with Medical Technology. Administered by Medical Technology. P: BCH 462, MT 422. Physiology, pathophysiology, and laboratory evaluation of hemostatic disorders.

851. Advanced General Pathology
Fall of even years. 3(3-0) P: PTH 852 concurrently. R: Approval of department. Fundamental concepts of cell injury, inflammation, and oncogenesis. Mechanisms of disease.

852. Advanced General Pathology Laboratory
Fall of even years. 1(0-0) P: PTH 851 concurrently. Histopathologic and ultrastructural study of general morphologic patterns of inflammation cell injury and neoplasm.
Fall, Spring. 1(1-0) A student may earn a maximum of 10 credits in all enrollments for this course. R: Approval of department.

Pathology Seminar
Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department.

Faculty supervised work on an experimental, theoretical, or applied problem in pathology. Experimental, theoretical, or applied problems in veterinary pathology. Faculty supervised work on an experimental, theoretical, or applied problem in veterinary pathology. Faculty supervised work on an experimental, theoretical, or applied problem in veterinary pathology.

Presentation and discussion of current topics in pathology by departmental graduate students, faculty or outside speakers.

Practical clinical exposure in the area of pediatrics. Involving 12 weeks in a multidisciplinary environment (family medicine, pediatrics, and internal medicine), 6 weeks in family medicine and 6 weeks in specialty areas (internal medicine, surgery, and obstetrics and gynecology). Didactic sessions are scheduled concurrently.

Presentation and discussion of current topics in pathology by departmental graduate students, faculty or outside speakers.

Practical clinical exposure in the area of pediatrics. Involving 12 weeks in a multidisciplinary environment (family medicine, pediatrics, and internal medicine), 6 weeks in family medicine and 6 weeks in specialty areas (internal medicine, surgery, and obstetrics and gynecology). Didactic sessions are scheduled concurrently.

Faculty supervised work on an experimental, theoretical, or applied problem in veterinary pathology. Faculty supervised work on an experimental, theoretical, or applied problem in veterinary pathology. Faculty supervised work on an experimental, theoretical, or applied problem in veterinary pathology.

Presentation and discussion of current topics in pathology by departmental graduate students, faculty or outside speakers.

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