390. Independent Study
Fall, Spring, Summer. 1-3 credits. May enroll for a maximum of 6 credits. 
P: PRR 215, PRR 320. R: Not open to freshmen and sophomores. Approval of department; application required.

413. Special Topics in Park and Recreation Resources 
Fall, Spring, Summer. 1-6 credits. May enroll for a maximum of 6 credits. 
P: PRR 215; PRR 320. R: Seniors and above.

450. Legal Aspects of Parks, Recreation, and Sport 
Fall. 3 credits. 
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 authority.

460. Park and Recreation Program Services 
Fall. 3 credits. 
P: Graduate 

Concepts, theories, philosophies 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 groups.

480. Recreation and Tourism Economics 
Fall. 3 credits. 
P: 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.

490. Park and Recreation Administration and Policy 
Fall, Spring. 3 credits. 
P: 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.

500. Nature of Inquiry in Recreation, Parks and Tourism 
Fall. 3 credits. 
P: Graduate Standing

Comparative review of recreation research methods and techniques. Assessment of application of research to recreation management problems and decision making.

540. The Law and Leisure Services 
Spring. 3 credits. 
P: Graduate Standing


570. Marketing Park, Recreation and Natural Resources 
Fall of odd-numbered years. 3 credits. 
P: 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.

580. Leisure, Travel and Tourism 
Spring. 3 credits. 
P: 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.

590. Integrated Approach to Current Park and Recreation Problems 
Spring. 3 credits. 
P: PRR 840, PRR 841; R: Graduate

An integrated multidisciplinary case study approach to current park and recreation related policy, planning, and management problems.

600. Selected Topics 
Fall, Spring, Summer. 1-6 credits. May enroll for a maximum of 6 credits.

Selected topics in recreation, parks, leisure and tourism. Planning, administration, problem resolution, management, recreation and tourism policy, aging and leisure.

610. Special Problems 
Fall, Spring, Summer. 1-6 credits. May enroll for a maximum of 8 credits. 
P: Graduate 

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

620. Park and Recreation Resources Seminar 
Fall, Spring. 1-6 credits. May enroll for a maximum of 2 credits. 
P: Graduate 

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

630. Master's Thesis Research 
Fall, Spring, Summer. 1-6 credits. May enroll for a maximum of 6 credits. 
P: Graduate M.S. Students in Thesis Program

640. Advanced Research Methods 
Fall, Spring, Summer. 3 credits. 
P: One statistics course, one research methods course, 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.

650. Doctoral Dissertation Research 
Fall, Spring, Summer. 1-24 credits. May enroll for a minimum of 24 credits. 
P: Graduate PRR, Ph.D. Level Students

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
### PATHOLOGY

#### Descriptions of Courses

Courses are subject to revision and final approval.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term(s)</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>652*</td>
<td>Veterinary Necropsy Clerkship</td>
<td>Fall, Spring, Summer</td>
<td>2</td>
<td>Supervised necropsy and interpretation of findings.</td>
</tr>
<tr>
<td>656*</td>
<td>Problems in Veterinary Necropsy Clerkship</td>
<td>Spring</td>
<td>2</td>
<td>Problems related to necropsy and the interpretation of findings.</td>
</tr>
<tr>
<td>851*</td>
<td>Advanced General Pathology</td>
<td>Fall</td>
<td>3</td>
<td>Fundamental concepts of cell injury, inflammation, and oncogenesis.</td>
</tr>
<tr>
<td>852*</td>
<td>Advanced General Pathology Laboratory</td>
<td>Fall</td>
<td>1</td>
<td>Histopathologic and ultrastructural study of general morphologic</td>
</tr>
<tr>
<td>853*</td>
<td>Advanced Systemic Pathology</td>
<td>Spring</td>
<td>4</td>
<td>Pathological aspects of the nervous, endocrine, cardiovascular,</td>
</tr>
<tr>
<td>854*</td>
<td>Advanced Clinical Pathology</td>
<td>Spring</td>
<td>3</td>
<td>Pathologic changes in tissues of animals used in toxicologic studies.</td>
</tr>
<tr>
<td>855*</td>
<td>Proseminal</td>
<td>Summer</td>
<td>2</td>
<td>Pathologic changes in tissues of animals used in toxicologic studies.</td>
</tr>
<tr>
<td>856*</td>
<td>Pathotoxicology</td>
<td>Summer</td>
<td>3</td>
<td>Pathologic changes in tissues of animals used in toxicologic studies.</td>
</tr>
<tr>
<td>857*</td>
<td>Correlative Diagnostic Pathology</td>
<td>Fall, Spring, Summer</td>
<td>3</td>
<td>Pathologic changes in tissues of animals used in toxicologic studies.</td>
</tr>
<tr>
<td>891*</td>
<td>Problems in Pathology</td>
<td>Fall, Spring, Summer</td>
<td>1-2</td>
<td>May reenroll for a maximum of 12 credits.</td>
</tr>
<tr>
<td>892*</td>
<td>Pathology Seminar</td>
<td>Fall</td>
<td>1</td>
<td>May reenroll for a maximum of 3 credits.</td>
</tr>
<tr>
<td>899*</td>
<td>Master's Thesis Research</td>
<td>Fall</td>
<td>1-3</td>
<td>May reenroll for a maximum of 10 credits.</td>
</tr>
<tr>
<td>999*</td>
<td>Doctoral Dissertation Research</td>
<td>Fall</td>
<td>1-2</td>
<td>May reenroll for a maximum of 59 credits.</td>
</tr>
</tbody>
</table>

#### PEDIATRICS AND HUMAN DEVELOPMENT

**PHD**

- **524. Genetics Clinic**
  - Terms: Fall, Spring, Summer
  - Credits: 1-4
  - May reenroll for a maximum of 8 credits.
  - P: PHD 523 R: Grad-professional students in colleges of Human and Osteopathic Medicine.
  - Role of genetics in health care delivery under the direction of a faculty member.

- **591. Special Problems in Human Development**
  - Terms: Fall, Spring, Summer
  - Credits: 1-6
  - May reenroll for a maximum of 12 credits.
  - P: PHD 523 R: Grad-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**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **601*. Human Development and Pediatric Sub-specialties**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **602*. Ambulatory Pediatrics**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **603*. Pediatric Infectious Diseases Clerkship**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **604*. Neonatology**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **605*. Pediatric Cardiology Clerkship**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **606*. Pediatric Endocrinology and Metabolism Clerkship**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

- **607*. Pediatric Hematology and Oncology Clerkship**
  - Terms: Fall, Spring, Summer
  - Credits: 1-12
  - May reenroll for a maximum of 12 credits.

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