I. Catalog Description (3 Hours):
Detailed investigations into the anatomy and physiology of domestic animals, including the respiratory, digestive, and nervous systems. Two 1-hour lectures, one 2-hour laboratory. (3)

II. Co- or Prerequisite(s):
AY 300 Domestic Animal Anatomy and Physiology

III. Purposes or Objectives of the Course (optional):
1) Explain growth and development of domestic animals, with a focus on animal anatomy.
2) Describe physiologic functions of the respiratory, digestive, and nervous systems.
3) Explain routine protocols for examination of animal health.

IV. Student Learning Outcomes (Minimum of 3):
1) Students will be able to identify all cranial nerves within the animal structure
2) Students will be able to identify all parts of the urinary tract
3) Students will be able to describe a blood cell

V. Optional departmental/college requirements:
A. Must be taught by a DVM or PhD in Animal Science.

VI. Course Content or Outline (Indicate number of class hours per unit or section):

<table>
<thead>
<tr>
<th>A. Topic</th>
<th># Lecture(s) and weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood, lymph and immunity</td>
<td>3 weeks/9 hours</td>
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<tr>
<td>Respiratory System</td>
<td>2 weeks/6 hours</td>
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<tr>
<td>The Digestive system</td>
<td>2 weeks/6 hours</td>
</tr>
<tr>
<td>The nervous system</td>
<td>2 weeks/6 hours</td>
</tr>
<tr>
<td>Sense organs</td>
<td>1 weeks/3 hours</td>
</tr>
<tr>
<td>The endocrine system</td>
<td>2 weeks/6 hours</td>
</tr>
<tr>
<td>The urinary system</td>
<td>2 weeks/6 hours</td>
</tr>
<tr>
<td>The Reproductive Systems</td>
<td>1 weeks/3 hours</td>
</tr>
</tbody>
</table>

Laboratory Content (Each is two weeks, unless otherwise specified)
Blood chemistry
Respiratory characteristics
Digestive characteristics
Nervous system characteristics
The endocrine glands and organs
The urinary system characteristics
Male reproductive systems (1 week only)
Female reproductive systems (1 week only)
Laboratory practicum (1 week only)

Signature: ____________________________  Date: _____________________
    Chair

Signature: ____________________________  Date: _____________________
    Dean