### Directions:
Evaluate the trainee using the rating scale below and check the appropriate number to indicate the degree of competency achieve. The numerical rating of 3, 2, 1 and 0 are not intended to represent the traditional school grading system of A, B, C, D and F. The descriptions associated with each of the numbers focus on level of student performance for each of the tasks listed below.

### Rating Scale:
- **0** – No exposure – no information nor practice provided during training program, complete training required.
- **1** – Exposure only – general information provided with no practice time, close supervision needed and additional training required.
- **2** – Moderately Skilled – has performed independently during training program, limited additional training may be required.
- **3** – Skilled – can perform independently with no additional training.

### 01.0 Basic Cell Biology
The student will be able to:

<table>
<thead>
<tr>
<th>01.01</th>
<th>Explain the molecular makeup of cells</th>
</tr>
</thead>
<tbody>
<tr>
<td>01.02</td>
<td>Identify the basic structures of the cells and their corresponding functions</td>
</tr>
<tr>
<td>01.03</td>
<td>Review the basic function of the cell</td>
</tr>
<tr>
<td>01.04</td>
<td>Describe the process of protein synthesis</td>
</tr>
<tr>
<td>01.05</td>
<td>Discuss mitosis and its clinical significance in diseases such as cancer</td>
</tr>
<tr>
<td>01.06</td>
<td>Detail meiosis in mammalian reproduction</td>
</tr>
<tr>
<td>01.07</td>
<td>Connect cellular parts and function to clinical veterinary practice</td>
</tr>
</tbody>
</table>

### 02.0 Tissue Types and Functions
The student will be able to:

<table>
<thead>
<tr>
<th>02.01</th>
<th>Describe the properties, location, functions and varieties of epithelial tissues</th>
</tr>
</thead>
<tbody>
<tr>
<td>02.02</td>
<td>Describe the properties, location, functions and varieties of connective tissues</td>
</tr>
<tr>
<td>02.03</td>
<td>Describe the properties, location, functions and varieties of muscle tissues</td>
</tr>
<tr>
<td>02.04</td>
<td>Describe the properties, location, functions and varieties of nerve tissues</td>
</tr>
<tr>
<td>02.05</td>
<td>List knowledge of tissues to clinical practices</td>
</tr>
</tbody>
</table>

### 1. Number of Competencies Evaluated ______

### 2. Number of Competencies Rated 2 or 3 ______

### 3. Percent of Competencies Attained (2/1) ______

Grade

Instructor Signature          Date
03.0 The Musculoskeletal System
The student will be able to:
0 1 2 3
03.01 Describe the functions of the musculoskeletal system
03.02 Detail the structure of bone
03.03 Name joint types and their accompanying roles in movement
03.04 List the two major sections of the skeleton, name the corresponding bones, and compare species differentiation
03.05 Explain how bones grow and remodel
03.06 Relate bone and muscle groups to movement
03.07 Connect the text materials pertaining to the musculoskeletal system to clinical practice

05.0 The Respiratory System
The student will be able to:
0 1 2 3
05.01 Identify the basic components of the respiratory tract
05.02 List and discuss the function and control of breathing
05.03 Discuss the clinical significance of the academic material learned in this chapter

07.0 The Digestive System
The student will be able to:
0 1 2 3
07.01 Identify the basic structures of the digestive system
07.02 Explain digestion in monogastrics, including: exocrine secretions and functions, digestive tract function, digestive tract absorption and role of the liver in digestion and metabolism.
07.03 Compare and contrast the specialization of dentition and digestive tracts found in the various domestic species, and define symbiosis and its significance in ruminant
07.04 Discuss the clinical significance of the academic material learned in this chapter

04.0 The Circulatory System
The student will be able to:
0 1 2 3
04.01 List blood components and explain the functions of blood
04.02 Identify the basic structures of the mammalian heart
04.03 Trace the flow of blood through the heart and body while detailing the parts of blood vessels and their structural significance
04.04 Use knowledge of heart function and control to explain the clinical significance of the electrocardiogram; heart sounds, including heart murmurs; and blood pressure
04.05 Discuss the clinical significance of the academic material learned in this chapter

06.0 The Renal System
The student will be able to:
0 1 2 3
06.01 Identify and name the basic structures in the renal system
06.02 Name and explain the functions of the renal system
06.03 Identify structures within the kidney and detail the formation and regulation of urine
06.04 Evaluate urine and blood as a measure of the health of the animal and the urinary system
06.05 Discuss the clinical significance of the academic material learned in this chapter

08.0 The Reproductive System
The student will be able to:
0 1 2 3
08.01 Identify male anatomy and relate associated hormonal function
08.02 Discuss female anatomy and the estrous cycle
08.03 List the steps in establishing pregnancy and identify the stages of parturition
08.04 Discuss the clinical significance of the academic material learned in this chapter
09.0 The Nervous System
The student will be able to:
0 1 2 3
09.01 Describe the neuron, the nerve impulse and the synapse and explain the components of a reflex arc
09.02 Identify the major structure of the brain and name associated functions
09.03 Discuss the anatomy and function of the spinal cord
09.04 Compare and contrast the function of the sensory somatic system to the autonomic nervous system and differentiate between the two branches of the autonomic system
09.05 Discuss the clinical significance of the academic material learned in this chapter

10.0 The Endocrine System
The student will be able to:
0 1 2 3
10.01 Describe the endocrine system
10.02 Name the major endocrine glands, list the hormones secreted by each gland, and describe the functions of theses hormones
10.03 Discuss the clinical significance of excesses or deficiencies of endocrine-related hormones

11.0 The Immune System
The student will be able to:
0 1 2 3
11.01 Define the term *antigen* and explain its significance ion immunity
11.02 Distinguish between passive and active immunity, differentiate between humoral and cellular immunity and their relationship in immunity and explain primary and secondary immune response
11.03 Discuss the clinical significance of the academic material learned in this chapter

12.0 Basic Nutrients
The student will be able to:
0 1 2 3
12.01 List the major components of animal diets, and discuss their structure and significance in nutrition
12.02 Discuss the clinical significance of the academic material learned in this chapter

13.0 Species Comparison
The student will be able to:
0 1 2 3
13.01 Explain the general principals in animal nutrition
13.02 Describe the important features found on pet food labels and compare and contrast the nutritional requirements for dogs and cats
13.03 Discuss the horse’s ability to digest fiber and the role in equine nutrition
13.04 Detail the ruminant’s ability to digest fiber and its role in ruminant nutrition
13.05 Link the clinical significance of the academic material learned in this chapter to veterinary practice

14.0 Principals of Infectious Disease
The student will be able to:
0 1 2 3
14.01 Describe Koch’s postulates
14.02 List the important distinguishing features and give examples of major disease agents and discuss the resulting disease
14.03 Relate text material to common presentations

15.0 Disease Prevention
The student will be able to:
0 1 2 3
15.01 Name the basic components of disease prevention
15.02 Describe the types of vaccines available and their roles in disease prevention
15.03 Link the clinical significance of the academic material learned in this chapter to veterinary practice
16.0 **Classification of Diseases**
   The student will be able to:
   0 1 2 3
   16.01 Classify diseases, match them with the domestic species in which they occur, and discuss their clinical significance

18.0 **Diagnosis of Disease**
   The student will be able to:
   0 1 2 3
   18.01 List the major methods used to diagnose disease and cite examples of disease diagnosis with each testing method
   18.02 Discuss the clinical significance of disease diagnosis

17.0 **Zoonoses**
   The student will be able to:
   0 1 2 3
   17.01 List and describe several diseases common in domestic animals that are contagious to humans
   17.02 Relate the academic material learned in this chapter to clinical practice

19.0 **Principals of Surgery**
   The student will be able to:
   0 1 2 3
   19.01 Explain the clinical significance of the basic principles of successful surgery
   19.02 Explain the clinical significance of healing of lacerations by first and second intention
   19.03 Explain the clinical significance of common considerations in veterinary surgeries