**Nutritional Adaptations in Animals**

**Pre-Lab Assignment Handout**

**Exp. Design Projects due this week – see online Lab Schedule**

**Instructions:** Read the background material for this unit and then complete each activity below. The activities match what is in the lab manual. Videos, simulations, or images are provided on the lab web site for completing the activities. Complete the Assignment as listed below.

**Introduction to the lab:**

1. After reading the background material (pp. 149-152), organize the following terms terms in a table, concept map, or any other representation that will help you understand and remember them. Provide an example organism that exhibits this term or trait.. *Insert your work below:*

Nutrition Autotroph Heterotroph Intracellular digestion Extracellular digestion

Saprobes Incomplete digestive system Complete digestive system Monogastric

Ruminant

**Activity #1:** *Paramecium* feeding (online videos); pp. 153 & 154

1. Use the online videos on the lab website to learn about how the *Paramecium* feeds, type of digestion, and structures involved. The videos will substitute steps 1-4 & 6-7 of this activity.
2. Use what you have learned to complete steps 5 & 8 in your lab manual.
3. After completing Steps 5 & 8, *insert your work below:*

**Activity #2:** *Hydra* feeding (online videos); pp. 154 & 155

1. Use the online videos on the lab website to learn about how the *Hydra* feeds, type of digestion, and structures involved. The videos will substitute Steps 1-3.
2. Use what you have learned to complete Step 4
3. After completing Step 4, *insert your work below:*