

# Biology 101

## Nutrition and Digestion – Reading Assignment (Chapter 22)

### Terms and Concepts:

(Learn the definitions of the following and take note of any examples of each mentioned in the reading). Exam #2 will include questions based on this reading assignment.

Heterotrophs

Herbivores

Carnivores

Omnivores

Four Stages of Food Processing:

(1) Ingestion

(2) Digestion

- Mechanical

- Chemical

(3) Absorption

(4) Elimination

Digestive Enzymes

Hydrolases

Salivary Amylase

Pepsin

Bile

calorie

kilocalorie (kcal)

Basal Metabolic Rate (BMR)

Metabolic Rate

Essential Amino Acids and Fatty Acids

### Review Questions:

Where along the human alimentary canal does each of the four stages of food processing specifically occur?

What are two functions of pancreatic juice made by the pancreas?

What are two functions of the stomach?

What famous experiment did Dr. William Beaumont conduct? What did he discover?

What is the main function of the small intestine?

What is the main function of the large intestine (colon)?

What experiment did biologist Barry Marshall conduct on himself? What did he discover?