# **Lab 1: Homeostasis, data collection, and data analysis**

## **PRE-LAB Report (5 pts)**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer these questions BEFORE you come to your laboratory session. All answers can be found in your physiology lab manual. By doing this prelab, you will have a better understanding of the physiological concepts of this exercise. Use these questions as a study guide when preparing for any quizzes or test.

1. What is the term used to describe the body’s ability to maintain measurable variables within a healthy range?
2. An elevated blood pressure is detected in the arteries, and the body’s response is to slow the heart rate. Does this represent a positive or negative feedback mechanism?
3. If time is one of the variables used in an experiment, the scientist usually decides at which time points he/she wants to take measurements of the other variable. Because time is used in this manner in experimental protocols, it is considered the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_variable and is always plotted on the \_\_\_\_\_\_\_\_\_\_\_axis.
4. When one reaches a conclusion by using incorrect reasoning methods, this is known as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
5. If two variables, such as caloric intake and human height, fluctuate together, can one infer correlation, causation, or both?