

# Laboratory Information

## Human Physiology

This laboratory is intended to allow you to actively learn about human physiology. We will be performing experiments and using interactive CD ROM to learn the mechanisms of the body systems.

Class time: Each day I will introduce the procedures for the lab. You should always read the lab manuals before coming to class. Refer to the lab schedule handout to know what topics we are going to cover.

Laboratory Quizzes: The laboratory quizzes will be given during the first 10 minutes of lab class. The lab schedule tells you which days will have quizzes and which activities you are required to read. Read the introduction to the lab as well as the lab activities. These quizzes are worth 6 points each and are designed to help you move efficiently through lab. There are no make-up quizzes. Please arrive to class on time.

Laboratory Procedures: After the lab quiz, I will give you a guideline and an introduction to that day's laboratory. The data and questions found in your lab manual should be turned in at the end of the lab. You can copy the answers onto binder paper or tear out the pages from your lab manual. I accept no photocopied lab manual pages. This type of photocopying is illegal due to copyright laws.

There are a few times when we won't use the manual, so instead, I will have a handout that is due at the end of class. All of these papers are worth 4 points each.

You are free to work in groups, compare your answers and teach the material to your lab partners. Remember that YOU are accountable for understanding the subject we have learned.

When all groups are finished with the lab experiments, we will review our findings and their meanings. Groups will present answers to lab questions on the board.

Attendance: You are required to attend each lab and are expected to fully participate throughout the laboratory. I expect students to stay until their groups are finished with the day's laboratory. Students must turn in their **own** papers at the end of class to receive 4 points.

PhysioEx: On days when we use the PhysioEx CDROM, all students will do Activity 1 at home prior to coming to class. You should do the pre-lab quiz, experiment, post-lab quiz, and review questions for the first activity. This homework takes some time, so do not wait until the last minute.

Next, write a **Lab Summary** for Activity 1 that includes:

1. Activity 1 Title and your name
2. Experimental procedures – a simplified version of the manual. One paragraph max.
3. Results – tables or graphs either drawn by you or from the CDROM
4. Physiology analysis – What does it mean? Did you see any trends? Explain the physiology of the results.
5. Terms/Definitions – list and define all new terms from this activity.

Summary is due promptly at the beginning of class and is worth 2 points. You are welcome to do all of the experiments before class to come better prepared, but only Activity 1 is due at the beginning.

Any Activity 1 summaries turned in 5+ minutes late will NOT be accepted. Please be sure to arrive on time to get full credit.

Do NOT copy work from lab partners. Each student must do their own assignment. Students having identical answers will get 0 points.

This Activity 1 summary is required to get everyone familiar with the lab we are going to be doing together. At the end of class, there will be a handout worth another 2 points to be turned in when your group is finished.

BioPac: A few times this semester we will use software/hardware that allows us to measure things like EKG and lung volume. The instructions you need for those experiments are on my website. Print them and bring them to class.

Grading: Your scores from laboratory will be added to those of the lecture and grades will be calculated on the scale provided in the lecture student information handout.