

Description: This course offers a hands-on approach to learning about cells, organs and organ systems. It is designed to support A&P lectures. The study of histological sections, using physiology recording software, and observing preserved specimens will assist with the learning of structure and function of various tissues and organs. Lab is approximately 25% of your overall A&P II final grade.

REQUIRED MATERIALS

- **Lab Atlas (*required*):** A Photographic Atlas for the Human Anatomy and Physiology Laboratory. 7th edition (VandeGraff and Crawley)
- **Lab Packet** - Each student **MUST** print out the lab manual from Moodle. Each lab exercise will be found in the “Lab Manual” section of Moodle. Each exercise is YOUR RESPONSIBILITY. Please make sure all exercises are printed out **prior** to coming to each lab. If these exercises are not printed out when you come to lab...you WILL be asked to leave the class until you have the exercise.
- **Drawings:** Sheets of plain paper are required for drawing. No lined paper will be accepted.
- **Pencils:** All drawings must be completed in pencil. Make sure you bring more than one pencil to each lab. Drawing may need to be colored upon request, so you will also need...
- **Colored Pencils**
- **USB drive** for physiology labs.

SUGGESTED MATERIALS

- **Anatomy and Physiology coloring workbook.** This is an excellent source for studying both lab and lecture.

Learning Goals: In this course we will strive to develop several different learning skills, including: critical thinking, reading, conducting research and the relationship between technology and biology.

Attendance: Attendance is **MANDATORY**. Each student is expected to attend **all** lab classes, and participate fully in those classes. Attendance is mandatory, and counts towards the final lab average. Due to the nature of the labs, they cannot be made up. However, you should **always** contact the instructor, regardless of the excuse.

Drawings: For some of the labs you will be required to draw. These will be collected and graded. Specific instructions for the requirements for each lab will be given during the lab. All drawings will be completed on plain, unlined paper (see requirements above).

Lab Exams: There will be two laboratory exams as indicated by the schedule in this syllabus.

Quizzes and Question Sets: There will be an oral quiz associated with some of the labs (see schedule). Quizzes will be given at the beginning of the class. You are expected to be on time. If you are late you will miss the quiz and will not be able to make it up. Question sets are due either at the end of lab or at the beginning of the next lab.

Lab Report: There is a lab report for ECG lab. The statistical information can be found within the lab. You will need to print the instructions for how to write the report separately.

Open Labs: Open labs are designed to help you in both lecture and lab. During open lab there is a TA available for you. You are responsible for signing in to open lab.

Your final lab grade will be based on the following:

- Lab Practicals 35%
- Lab Drawings 25%
- Quizzes/Question Sets 30%
- Lab Report 10%

Plymouth State University is committed to providing students with documented disabilities equal access to all university programs and facilities. If you think you have a disability requiring accommodations, you should immediately contact the PASS Office in Lamson Library (535-2270) to determine whether you are eligible for such accommodations. Academic accommodations will only be considered for students who have registered with the PASS Office. If you have a Letter of Accommodation for this course from the PASS Office, please provide the instructor with that information privately so that you and the instructor can review those accommodations.

Dates	Lab Topic	Quiz
January/February		
January 29 & 31	Intro- Nervous Tissue/Spinal Cord (slides)	
February 5 & 7	Neurophysiology – Reflexes (human)	Quiz on Nervous Tissue Drawing are Due
February 12 & 14	Brain/Cranial Nerves (sheep)	Neurophysiology Question Set Due
February 19 & 21	Oculomotor (EOG) Muscle Activity	Quiz on the Brain Drawings are Due
February 26 & 28	Sensory Organs - Eye (cow)	Oculomotor Question Set Due
March		
March 5 & 7	Endocrine System	Quiz on the Eye Drawings are Due
March 12 & 14	Lab Exam	Drawings are Due
March 18 & 20	Spring Break	
March 26 & 28	Blood	
April		
April 2 & 4	The Heart and Blood Vessels	Quiz on the Blood Drawings are Due
April 9 & 11	ECG and Cardiac Cycles (human)	Quiz on the heart and Blood Vessels Drawings are Due
April 16 & 18	ECG and Cardiac Cycle Hypothesis Testing	ECG and Cardiac Cycle Questions Due
April 23 & 25	Respiratory Physiology (human)	ECG Lab Report Due
April 30 and May 2	Digestive System	Respiratory Question Set Due Quiz on the Respiratory System
May		
May 7 & 9	Urogenital System (cat, human, slides)	Quiz on Digestive System Drawings Due
May 13 & 17	Finals Week	Question Set Due Exam Schedule will be posted