



WHY ARE WE HERE? | Course Objectives

The purpose of this course is to help you:

- 🦑 Broaden your understanding of some the basic **concepts** and **processes** of physiological regulation, from cellular to organ to organismal
- 🦑 Gain exposure to, and practice, some of the **basic tools** physiologists use to answer **experimental questions**
- 🦑 Practice **asking and answering physiological questions** in a safe but motivating environment
- 🦑 Appreciate the **gorgeous diversity** of animal life and think about how an animal's physiology matches its environment

HOW WILL WE DO THAT? | Course Activities



You will **read** the lab handouts and sometimes watch videos ahead of lab (motivated by pre-labs due before each lab), allowing you to get more out of each lab session.



Every week in lab, you will do **hands-on activities**, from physiological recordings of yourself to muscle dissections, with the instructor and TAs available to clarify, answer questions, and provide support.



Outside of lab time, you will **study** the lab materials, lab manual and other resources, guided by the goals for each lab.



Learning based on all three of the above activities will be assessed by **lab exams** and **lab reports**.

CLASS SCHEDULE

*Note, a **pre-lab assignment** is due before every lab (except lab #1 and lab exam days) on the Blackboard site.*

DAY	LAB
May 26	Scaling
May 28	Glucose Physiology in Crayfish and Humans
June 2	Neurophysiology in Virtual Squid
June 4	Sciatic Nerve Function in Frogs
June 9	Senses in Humans
June 11	Lab Exam 1
June 16	Neurochemical Control of Heart Rate in Blackworms

June 18	Skeletal Muscle Function in Frogs
June 23	Respiration in Humans
June 25	Cardiac Function in Humans
June 30	Urinalysis in Humans
July 2	Lab Exam 2

The Details

Class Meeting Time: Tuesday and Thursday 1-4 p.m.

Instructor: Sarah Leupen

Office #: BS 467

Office Hours: I'm usually available between lecture (10-12) and lab (1-4) on Tuesdays and Thursdays, and also after lecture on Wednesdays. But to be sure, mention it to me in class or send an email, and we can also arrange other times. Just ask!

Email: leupen@umbc.edu

TA: Karan Odom, kodom1@umbc.edu

Office Phone #: 455-2249 (Email is a better way to contact me, though).

Text: None; nothing to buy for lab. Lab texts are posted at least a week ahead on Blackboard so you can see what we're doing and do the Pre-Lab.

Grading: Your grade is a weighted average of the following grade components:

2 Exams	40%
8 of 10 Lab Reports (lowest 2 dropped)	40%
7 of 9 Pre-Labs (lowest 2 dropped)	15%
Participation	5%

Grades are assigned on a straight 90/80/70/60 basis with no curving.

Pre-Labs: Prelabs are due **on Blackboard** before every lab. Because this class is probably not the only thing happening in your life, the lowest two prelabs are dropped from your homework-grade calculation. Pre-labs completed after lab are not worth anything at all because the whole point of them is to prepare you FOR lab. Pre-labs

completed during lab, when you are supposed to be in lab, are worth negative one million points. Roughly.

Lab Reports: There are 10 lab reports you can do, but only the top 8 count toward your grade. If you do them carefully, then, you can probably manage to only do 8 of them. Or, you can do all 10 and the lowest 2 will be dropped (or do 9 and the lowest one of those will be dropped.) Lab reports are not formal write-ups, but rather consist of your written and graphical representation of the data gathered in lab, plus answers to any questions in the lab. Lab reports are due 1 week after the day you do that lab.

Attendance and Late Work: Missing a lab is a really big loss for you. There are only 12 lab meetings and a lot of what goes on there can't be made up. Late prelabs are not accepted (see above under Pre-labs). Late lab reports are 10% off per day late, with three free days to distribute among them (three free late days total for the summer session).

Support is Available! UMBC is committed to eliminating discriminatory obstacles that disadvantage students based on disability. **Student Support Services (SSS)** is designated to receive and maintain confidential files of disability-related documentation, certify eligibility for services, and determine reasonable accommodations. If you have a disability and want to request accommodations, contact SSS in the Math/Psych Bldg., room 213 or at 410-455-2459. If you require accommodations for this class, make an appointment to meet with me to discuss your SSS-approved accommodations, or any other concerns that you have.