

# General Physiology (BI205): Laboratory Syllabus

Spring 2021

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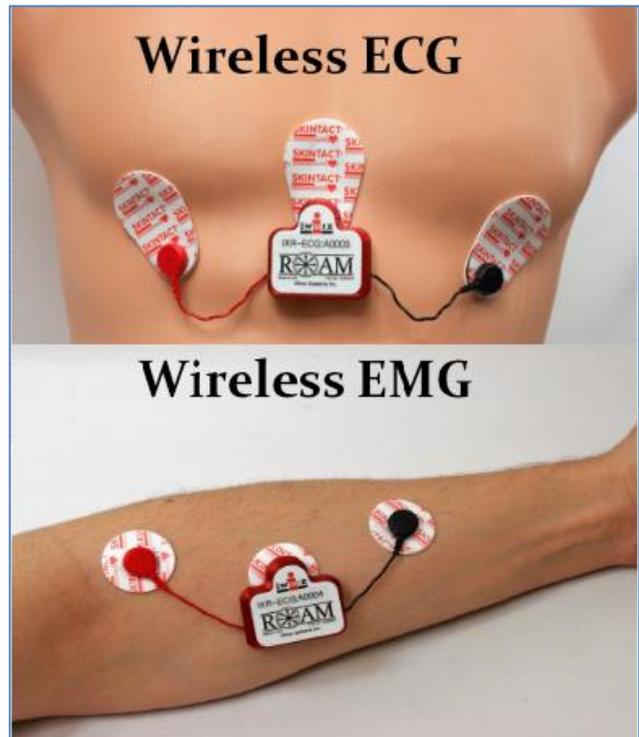
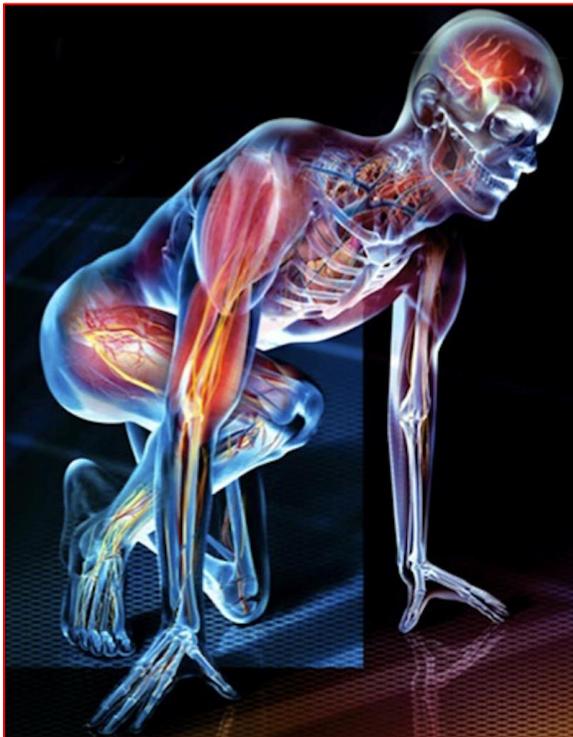


Image source: <https://wallpaperaccess.com/human-physiology>

Image source: *iWorx Lab Manual*

## COURSE AND INSTRUCTOR INFORMATION

**Course Information**      Laboratory (1 hrs)  
Room: Stedman Hall 205  
**Lab Times:**  
Wednesday:  
1-2pm: Section A  
2-3pm: Section B  
Thursday:  
8-9am: Section C  
9-10am: Section D  
1-2pm: Section E  
2-3pm: Section F

**Instructor**                      **Dr. Terese M. Zidon**  
Office: STED 325  
Office Phone: 660-248-6339  
E-mail: [tzidon@centralmethodist.edu](mailto:tzidon@centralmethodist.edu)

**Lab TAs:**                              Lab A and B (Wednesday, 1-2 and 2-3pm) – Whitney Pascoe  
Lab C and D (Thursday, 8-9 and 9-10am) – TBA  
Lab E and F (Thursday, 1-2 and 2-3pm) – Grace McIntosh

**Class Zoom ID:**                      Zoom Link: <https://centralmethodist.zoom.us/j/95868151218>  
Zoom ID: 958 6815 1218  
Password: BI205L

**Instructor Availability:**      To facilitate communication, please contact me via the “private discussion forum” in myCMU or talk with me before or after class with any questions. You can also schedule a meeting to discuss course content as needed. It is important to me that each of you does well in the course and I am available to assist you in any way I can! **Get help early and as often as you need it!!!**

**Website:**                              **MyCMU** is the course management system this course uses to access the lab handouts, useful internet links related to content discussed in class, and grade information.

**Zoom Office Hours**                      **MF: 1-3pm** (STD 205) or by appointment only.  
Zoom Office Hours ID\*: **660 248 6339**  
*\*There is a waiting room, please be patient as I may be in a meeting with another student.*

**Apps for class:**                      **Notability (required):**  
To complete assignments



### *Prerequisites/ Co-requisites:*

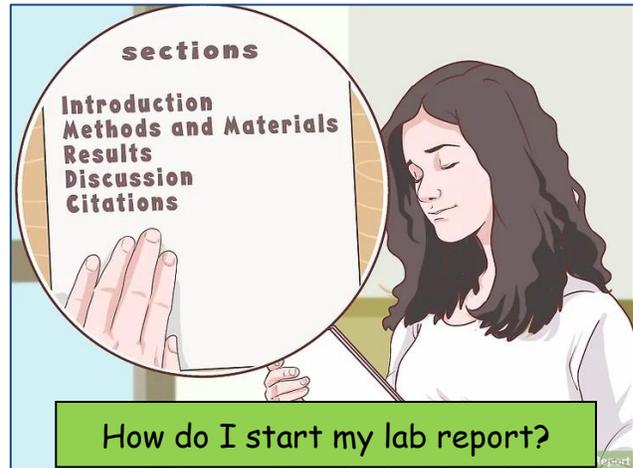
Concurrent enrollment in BI205L is highly recommended to enhance the physiology experience.

**Prerequisites:** BI101 – General Biology I and BI102 – General Biology II. Additional pre-requisites: entire year of general chemistry OR permission to take the course by the instructor, Dr. Zidon, and division chair, Dr. Gordon.

### *Course Description and Objectives*

#### *Course Description and Objectives*

This college course is designed to provide you with a “hands-on” experience of physiological mechanisms, to enhance in-class lecture content. You will also learn how to present a disease you are interested in researching. The overall goal of this course is to familiarize you with physiological experimentation, graphing, data analysis, and data interpretation. This course is primarily intended for pre-med (Biology), Nursing, Athletic Training, and other health related fields.



## **LEARNING OUTCOMES**

When you complete this course, I am confident and hopeful you will be able to (or will):

### *Overall Course Learning Goals:*

- Demonstrate an understanding of the scientific method including experimental design
- Complete physiological experiments with knowledge based on physiological content learned in class
- Graphically represent data acquired during lab
- Analyze and interpret experimental data to demonstrate physiological principles
- Apply the scientific method by carrying out physiological experiments and data interpretation
- Present on a pathophysiological disease to an audience

### *Measurable Learning Outcomes:*

- Identify different cellular for review
- Explain pulse rate (i.e., heart rate) and blood pressure homeostasis
- Describe diffusion, osmosis, and interpret the graphical representation of osmosis experiment.
- Be able to understand how insulin works
- Be able to graphically represent male and female hormone regulation
- Describe neuronal conduction
- Explain the physiology of the senses
- Describe how muscle contraction and how reflexes work
- Understand the physiology of the cardiovascular system
- Understand ventilation and gas exchange
- Be able to identify various molecules in urine as a clinical application
- Explain how chemical digestion occurs within the body and how enzymes work to aid in digestion

## **COURSE EXPECTATIONS:**

**This is a college classroom and you have the opportunity to learn material that will prepare you for your future career.** You will learn the most if you attend each lab session, are on time, and if we are all respectful to each other. Reading the assigned materials will help you grasp concepts covered in lecture and retain them for the tests and in future courses. Being an active participant in class, asking questions, and engaging in class discussions will also increase your understanding and retention of the material. I will be prepared for each class session, too, so we can work together on building your knowledge. In addition, I am available to assist you outside of class via e-mail, in person by appointment, or during office hours.

As a student enrolled in this course, **it is your responsibility to judge whether or not you have the skills to succeed.** You must carefully assess your own skill level and knowledge of chemistry, the human body, and essay writing. As always, there is assistance in the areas of writing, math, etc. available (and free of charge) at the tutoring center on campus for you. **Please be proactive and ask for assistance early as I am here to help in anyway I can!**

**Learning, studying, and understanding the anatomy course content is your responsibility.** Final course grades are assigned objectively and without regard to student's academic standing or to the requirements of other departments or programs. It is your responsibility (as a CMU student) to see that you are above any minimum requirements that may apply.

## COURSE ASSESSMENT

Evaluation		Grading Scale*:
In-class Assignments <sup>1</sup>	60%	A = 90.00-100.00%
In-class Phys Presentation <sup>2</sup>	10%	B = 80.0-89.9%
Lab Report 1	15%	C = 70.0-79.9%
Lab Report 2	15%	D = 60.0-69.9%
<b>Total Percentage</b>	<b>100%</b>	<b>F = ≤ 59.9%</b>

*\*Grades are final and non-negotiable. There is no rounding up at the end of the semester for any single student.*

**Extra Credit:** There is no extra credit in this course. All points are graded.

**<sup>1</sup>Laboratory In-class Assignments:** Most of lab time will be used to perform exercises from the laboratory handouts available on MyCMU. Exercises include observational (ie. viewing cells or tissues through the microscope), listening to brief PowerPoint's or youtube content, or "hands on" experiments (ie. performing ECG's and blood pressures), etc. We will also use software with the laptops, including iWorx, which interfaces with the laptops and allows measurement of various parameters (like ECG, tidal volumes, EMG) or a physiological software program, an interactive software program which allows you to run simulated experiments on living tissue, like muscle and nerves.

Students are expected to work through the assigned laboratory activities in pairs or groups, as needed. To aid in acquisition of objectives, handouts with simple questions or tables, etc. will be given out to fill in and complete to turn in by the next laboratory period.

Lab assignments are required to be completed during lab on your iPad (notability is the most commonly used app to complete assignments) and are due by the beginning of the next class period on myCMU. ALL assignments must be turned in as a **.pdf file** to make grading easier and get faster feedback. To maintain equity and fairness for all students: late assignments, assignments turned in that have an incorrect format, or assignments that have been e-mailed to the TA or instructor will result in a **10% reduction** in the overall score. Assignments will not be accepted 1 week past the due date, regardless of the circumstances, and will receive a permanent zero in the gradebook.

**<sup>2</sup>Presentations:** The purpose of this laboratory exercise is to be able to communicate using physiological terminology to other students in a concise and professional manner. You should also gain an appreciation for the impact the disease has on a patient's life and be able to convey this to an audience. You are required to choose a disease for your pathophysiology presentation by the third week and present it at the end of the semester. Rubrics for the presentations are on MyCMU and will be discussed in class. You must ask Dr. Zidon if it is appropriate and not yet chosen; if it is a go, you will prepare a short presentation (**~10 min.**) using any materials you desire (ie. handouts, audio/visual, or just stand there and talk). You should include in your presentation: 1) discuss the impact the disease has on a person's life, 2) symptoms, 3) tests to diagnose, 4) treatment options, and 5) describe what it would be like to live with this disease with an emphasis on the pathophysiology (how the disease causes the normal physiology of the system to change).

The important thing to remember is you need to know how to communicate--with doctors, family members, graduate school advisors--in a meaningful and professional manner. The purpose of this exercise is to use the class to practice this ability.

Professionalism, clarity, and answers to questions will graded, based roughly on the following:

- Disease: Definition and pathophysiology, 20 pts
- Symptoms/causes for the disease, 20 pts
- Tests to diagnose or how these tests work, 20 pts
- Impact on person and/or community, 10 pt.
- Treatment and a thorough explanation of the treatment, 10 pt.

**Lab Reports:** There are two full lab reports due during the semester to examine your physiological comprehension of knowledge and scientific writing. In-depth guidelines for how to set up your lab reports, lab report rubric, an example lab report, and how to write each individual section of your report are on the myCMU Resources and Materials page.

We will discuss how to write a lab report in class and formal rubrics will be available on MyCMU. Briefly, you will write an introduction, methods, results, and discussion section. However, you can also find more information on how to write a formal lab report here:

[https://ocw.mit.edu/courses/biological-engineering/20-109-laboratory-fundamentals-in-biological-engineering-fall-2007/assignments/guide\\_lab\\_report-htm/](https://ocw.mit.edu/courses/biological-engineering/20-109-laboratory-fundamentals-in-biological-engineering-fall-2007/assignments/guide_lab_report-htm/)

Other websites that may be helpful when writing your lab report:

WikiHow: <https://www.wikihow.com/Write-a-Science-Lab-Report>

WikiHow: <https://www.wikihow.com/Write-a-Biology-Lab-Report>

## **INSTRUCTOR'S NOTES:**

### **ATTENDANCE POLICY: COVID / QUARANTINE, CLASS CANCELLATION, COLLEGE DUTY INFORMATION:**

Class preparation and participation is important to student success and the learning environment discussion opportunities will enhance your knowledge. Attendance in the laboratory or on Zoom (if in quarantine) is highly encouraged because it will affect your learning.

If you miss a class, you are to contact another student to determine what was missed during a class period or watch the zoom videos on your own time. If there are extenuating circumstances (i.e., serious health issues) and you are unable to make it to class or to an exam, please let the instructor know via the discussion forum and accommodations will be discussed between the professor and student on an individual basis. At the discretion of the instructor, students who miss more than 2 unexcused classes may have a reduction in their final grade by up to one letter grade. In addition, students who come to class late or leave early may be counted as absent on that day for purposes of class attendance/grading policy.

Communication with the instructor is key to a good class learning experience. If there is a serious reason (e.g., ill, sports, college duty, etc.) for missing an exam you must contact the instructor at least **24 hours prior** to the assigned assessment. The excuse's validity is at the discretion of the instructor and may require authentic documentation (e.g., Dr's note, coaches note, name on quarantine list, etc.).

### **COVID-19 Attendance Updates: Use the following guidelines if you are quarantined this semester:**

- Email me within 24 hours of missing a scheduled exam to reschedule a time to take it as soon as possible.
- If you are in quarantine and are verified (i.e., are on the quarantine list), accommodations will be determined by making an appointment with Dr. Zidon to make up the exam or quiz. These issues will be dealt with on a case-by-case basis. You have 5 days to complete an in-class exam or lab quiz once you are out of quarantine.
- Being absent does not excuse you from turning in homework or assignments to myCMU late. It would be wise to complete and submit work as early as possible to avoid an emergency.
- To earn points for in-class activities in which you cannot participate because you are quarantined, you will be sent, via e-mail, any pictures/images for the lab assignment to be completed on your own. The due date will be the same as the students who were in class.
- As a responsible student and an avid learner, **you will only miss in-seat scheduled classes if you are legitimately sick**, displaying any symptoms of COVID-19, or participating in a University Sanctioned event. Missing class to finish homework or to take a friend to a doctor is not a wise choice and will not be considered an excused absence.

**COVID Symptoms List:** The symptoms of COVID-19 are many and varied, but may include the following: Fever, dry cough, unusual tiredness, gastro-intestinal distress, change in sense of smell or taste, etc. A more thorough list of symptoms is available at:

<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>

### **Class Cancellation:**

On occasion it will be necessary to cancel a class unexpectedly due to weather, illness, or other life situations and you will be immediately notified via an announcement in class, on MyCMU announcement blog, and an e-mail.

### **Athletic or Club Accommodations (College duty):**

The student's responsibility for being an active member of a sports team or taking a special trip for a club is to choose classes for the semester that minimize potential absences as much as possible. The student must anticipate and plan for any advanced absences for the upcoming semester, and make arrangements with the instructor about each absence ONE WEEK in advance. **The student must make up any exam BEFORE the**

**event takes place.** Failure to inform the instructor prior to the student's absence is an unexcused absence and will result in a zero for an exam.

### **Syllabus Modifications:**

Make sure to read the course syllabus carefully. There may be modifications (course requirements, scheduled topics, exam dates, in-class assignments, overall points, etc.) to the course syllabus as the semester progresses to accommodate student learning or varying dates due to weather incidents. Students will be notified and given explanation of any changes made to the syllabus.

### **STUDENT IN-CLASS AND ZOOM RESPONSIBILITIES:**

**We will start lab promptly at your scheduled time.** If you need to arrive late or leave early for any reason, please come in quietly to minimize interruptions. Late arrivals and early departures are disruptive and disrespectful to the entire class and can impede your and other students learning. I highly encourage open discussion during lab yet please do so with the utmost respect to all individuals in the classroom. If you have a question or concern about a lab topic please use appropriate classroom etiquette. **A good learning environment requires respect for your fellow students and your instructor.** If talking or inappropriate behavior becomes a problem, I will ask the offenders to leave the classroom and proper actions will proceed.

**Learning and understanding the course content is your responsibility!** I, as the instructor, am here to facilitate your learning and help you when needed. As a student enrolled in this course, **it is your responsibility to judge whether or not you have the skills to succeed in this course.** You must carefully assess your own skill level and knowledge of chemistry, biology, and test taking. As always, there is assistance in the areas of biology, math, etc. available (and free of charge) at the writing or tutoring center on campus for you through the Center for Learning and Teaching. **Please be proactive and ask for assistance early.**

**Wear a face mask during class (2021):** All students are required to wear a face mask while in class, there are no exceptions. Wearing a face mask is about protecting others, our Central Methodist Community, and the communities we work in. The primary purpose of wearing a face mask is to reduce the probability of virus spreading from the wearer (who may not know they are spreading the virus) into the environment and to others. The secondary purpose of the face covering is to reduce the likelihood that large droplets containing virus that are spread by others may enter the nose and mouth of the wearer. The use of a face mask does not replace the continued need to maintain physical distances from others, at least 6 feet, but instead augments physical distancing and helps us further reduce the likelihood of virus transmission.

A face mask is a cloth, bandana, or other type of material that covers an individual's mouth and nose. The CDC lists five criteria for "cloth face coverings," which should:

- Fit snugly but comfortably against the side of the face
- Be secured with ties or ear loops
- Include multiple layers of fabric
- Allow for breathing without restriction
- Be able to be cleaned or laundered and machine-dried without damage or change to shape.



Image: [www.groovebags.com](http://www.groovebags.com)

The complete CMU Face Mask Policy is available at:

[https://www.centralmethodist.edu/about/offices/human-resources/\\_docs/FaceCoveringPolicy.pdf](https://www.centralmethodist.edu/about/offices/human-resources/_docs/FaceCoveringPolicy.pdf)

### **CMU Best practices for students on Zoom during their regularly scheduled class time.**

- Be early to class so you are in a mindset that is conducive to learning.
- Have your class materials organized and accessible during your scheduled class period
- Dress as you would for a face-to-face class
- Sit upright with the lights on to help you stay focused while learning remotely
- Test your microphone and speakers for Zoom so you can hear well and can be heard
- Use your first and last names as your sign in, do not leave the name as "iPad" or use something amusing (*this is important for attendance taking the first weeks of class*)
- Use the Chat function or "raise your hand" as necessary to ask questions or comment. This should be done in a professional manner and respectful to all others in the Zoom meeting.

### Technology Policy:

The time we have together each week is fairly short (~1 hr / week) so I really want all students to remain present or “in-class” during lecture time. My hope is that you can learn or become familiar with the information during class and then really study that information outside of class. We will make “being present” a core value of this class by following the guidelines below:

- iPads will be permitted during class to access only the course notes, courseware, or eTextbook only. These devices should be used only in conjunction with exercises directly related to class activity. I recognize that your tablets can be a useful way to take notes or even to search out additional information during class. However, inappropriate use—defined as use that inhibits the learning experience for you OR others in the room—is prohibited. This includes, but is not limited to: messaging, texting, games, etc. If you are using your tablet inappropriately or if other students feel they cannot learn because of your distraction you will be asked to leave the classroom (i.e., disruptive behavior) for the remainder of that class period.
- I kindly ask that all cell phones are turned off or muted during lecture to decrease distractions for both you and the other students around you! Use of cellular phones for entertainment purposes (internet and/or texting) in any way during the lecture sessions is extremely disrespectful and will be noted.

*\*\*NOTE: Cell phones or any other electronic devices (including iPods, laptops, smart watches, etc) out during an exam will result in a zero for the exam.*

### Academic Integrity:

CMU students are required to comply with the Academic Conduct Policy stated in the student handbook is expected at all times. Academic dishonesty is a serious offense and will not be tolerated. This includes, but is not limited to: cheating on assignments or exams, plagiarizing (copying another’s idea or words without proper credit), stealing of tests or other academic materials, and/or knowingly falsifying records. The first offense penalty for academic dishonesty on **any** assignment will result in an **F** (0 pts) for the assignment and the Academic Affairs and Office of Student conduct will be notified; there are no exceptions. The second offense will result in the student being dropped from the course with an **F** and Academic Affairs and the Dean of Student Affairs will be notified. They will then decide on further disciplinary action, depending on the severity of the offense, which may include suspension or dismissal from the College. Refer to the *Student Handbook* for the CMU honor code. I am committed to this honor code.

An Honor Code is as follows: ***No student shall commit any act of academic dishonesty in order to advance her or his own academic performance, or to impede or advance the academic progress of others.***

### Examples of Cheating are defined as:

- a) Receiving aid during an exam from anyone (or anything, such as a device) other than the instructor
- b) Using unauthorized materials during an exam (e.g., cell phone, smart watch, copied content, etc.)
- c) Giving unauthorized aid to another student taking an exam (e.g., talking when exam is handed out)
- d) Plagiarism. Defined as copying an individuals’ words or ideas without giving the source proper credit.
- e) Copying another student’s work on any homework assignment or during class.

### Success in this course:

Discipline and dedication in your study habits are important to be successful in this course. **Procrastination on an assignment in this course does not work well.** I highly encourage you to work with your lab group to make sure you understand the material and interpret the information correctly.

- 1) Attend every class, pay attention and take notes. Research has shown that physical note taking reinforces learning through the process of both hearing the information and writing it down.
- 2) Reread your notes DAILY or at least three times per week (not just the night before the exam) to make sure you understand what you are learning and not just memorizing (although there will be plenty of memorization required). As a student, research has shown you need to be spending a minimum of 2 hours studying outside of class for every hour you are in class.
- 3) Read and re-read the supplemental information on how to write a lab report or complete a good presentation.
- 4) Productively interact with your classmates by discussing topics or join/make a study group to help with your understanding. Study groups are highly encouraged as teaching one another will help keep you accountable to learn the information.
- 5) Complete all assignments on time and to the best of your ability.

- 6) If you have tried to understand a topic in lab, have read the textbook or the worksheets thoroughly, but still don't "get it", please ask the instructor. Please use the discussion forum set up for the course so you will have a written reply to your question in one location, but you can also make an appointment to meet me on campus to discuss a topic. You are encouraged to seek assistance from me by scheduled appointment whenever you have questions concerning course topics.

### **OTHER STUDENT RESOURCES:**

#### **Library Resources:**

Online databases are available for you to write a paper or a lab report

Website: <https://centralmethodist.edu/academics/library/library-services.html>

CMU is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, communicate your concerns with the instructor. In addition to speaking with the instructor, the following resources are available to ensure an opportunity to learn in an inclusive environment that values mutual respect.

#### **Students with Disabilities:**

Students with documented disabilities who may need academic services for this course are required to register with the Center for Learning and Teaching. Until the student has been cleared through the disability services office, accommodations do not have to be granted. If you are a student who has a documented disability, it is important for you to read the entire syllabus as soon as possible. The structure or the content of the course may make an accommodation not feasible. Website for the Disability Services page.

Website: <https://centralmethodist.edu/academics/learning-teaching/disability-accommodations.html>

#### **Student Success Services / Center for Learning and Teaching:**

They provide you with personal advisors to help with many aspects of being a CMU student such as: student success planning (balancing academic rigor with other activities, identifying & overcoming barriers to success, mastering effective study skills, taking ownership of success and setbacks), adjustment to CMU, adjustment as a nontraditional student, coping with academic stress, etc. Website for the Center for Learning and Teaching.

Website: <https://centralmethodist.edu/academics/learning-teaching/index.html>

#### **Counseling services:**

If you are having a hard time managing time and stress, and building healthy habits to improve academic success, or deal with any personal issues that may be getting in the way of focusing on your courses.

For students who are experiencing conflict which is impacting their educational environment, contact the Counseling Center at 660-248-6274 to schedule your initial appointment or visit the Counseling Center's website:

Website: <https://centralmethodist.edu/student-life/services-and-resources/counseling-center.html>

#### **Non-Discrimination Policy:**

CMU does not discriminate on the basis of race, color, sexual preference, religion, sex, national origin, age, or federally defined disability in its recruitment and admission of students. The University's educational programs, activities, financial aid, loan, and scholarship programs are made available to all qualified students without regard to race, color, sexual preference, religion, sex, national origin, age, or federally defined disability. The University complies with all federal and state non-discrimination requirements.

#### **Intellectual Pluralism:**

CMU and I welcome the diversity of ideas and opinions that students hold. It is this diversity that drives the intellectual stimulation and learning. If you have concerns with the structure or content of the course please address those concerns first with the instructor. Your grade will in no way be affected by our conversation. If after speaking with me you are not satisfied, you should direct your concerns to the Division Chair, Dr. James "Tiger" Gordon ([jgordon@centralmethodist.edu](mailto:jgordon@centralmethodist.edu)).

#### **Grievance Policy:**

CMU has established a grievance policy and process designed to provide students and others with a process to resolve potential issues. This policy and process is established to provide persons with an avenue to file a written concern and to establish a process to track and implement changes as a result of said concern. For more detailed information, consult the CLAS catalog.

Website: <https://clas-catalog.centralmethodist.edu/info/University%20Policies.html#info13-grievance>

If an issue cannot be solved through consultation with the faculty or division chair, students can report an incident/issue within 30 days of the event via the online web form:

<https://cm.maxient.com/reportingform.php?CentralMethodistUniv>

## **FREQUENTLY ASKED QUESTIONS (FAQS)**

### **Lab Questions**

#### **Q. Do I have to attend the labs?**

A. Yes, you must be present each lab to get the most out of the lab, or the “hands-on” experience. Each lab period following the first week will start with a quiz, dissections are better understood if you are there, and the instructor is available during this time to help with any structures you may not know. In addition, missing three lab classes results in automatic one letter grade drop (i.e., if you have a B at the end of the semester but missed 3 labs (unexcused), you will get a C) because it is too difficult to make up the material, understand, and learn the information if you are not in the lab. Although Zoom may be an option, being in lab is a wonderful opportunity to really be able to understand and complete the labs as a group.

### **Assignment Questions**

#### **Q. I am having trouble uploading my assignment on myCMU, can I just e-mail it to you?**

A. Yes. However, remember that I will take 10% off of your assignment if it is e-mailed to me and not on myCMU. If you are having trouble uploading a pdf file or having trouble saving a .pdf file, please contact the IT HelpDesk (Technology services at CMU):

Phone: 660-248-6197

E-mail: [helpdesk@centralmethodist.edu](mailto:helpdesk@centralmethodist.edu)

Location: Cupples Hall

#### **Q. I missed the deadline for the lab assignment. Would you please open the assignment so I can receive credit for it?**

A. Unfortunately, no. You will need to e-mail me or the TA your completed lab assignment. Note that you will have an automatic 10% reduction in your overall score for late assignments, past the due date and time. Any assignment that is 1 week past the due date will receive a permanent zero in the gradebook. *Please see the Course Assessment – Lab Assignment section for this policy.*

#### **Q. Why did I miss points on my lab assignment? I thought I turned it in on time.**

A. Unfortunately, you either did one of two things to miss points in the lab: 1) You either turned it in as a .note file or as an image, which cannot be easily opened for grading or 2) you e-mailed it directly to your professor or the TA and did not follow the instructions correctly for turning it in on myCMU. For either of these scenarios, there is an automatic 10% reduction in your overall score. *Please see the Course Assessment – Lab Assignment page for more information on this question.*

#### **Q. Can I do something for extra credit or an extra assignment to make up for missed homework assignment or quizzes?**

A. Again, no. There are no “extra credit” opportunities in this course. You are to complete all assignments for full credit.

#### **Q. How do I calculate my overall grade?**

A. To calculate your total grade for the course use the following information and equation:

Assignments are worth 60% of your overall grade

Presentation is worth 10% of your overall grade

Lab Report 1 are worth 15% of your overall grade

Lab Report 2 is worth 15% of your overall grade

To calculate your overall grade:

= (Assignment avg. x 0.60) + (Presentation score x 0.25) + (Lab Report 1 score x 0.15) + (Lab Report 2 score x 0.15)= your OVERALL score out of 1.0 (or 100%).

Helpful website for an example of how to calculate weighted percentages:

<https://www.youtube.com/watch/P0oinC6ejFI>

## Tentative Schedule of Physiology Laboratory Topics - Spring 2021\*

The schedule of topics is subject to change based on student progression and understanding. Any changes will be announced in class and posted on the public discussion forum or announcement blog in myCMU. Readings pertain to the required lecture textbook: Human Physiology by Brian Derrickson, 2<sup>nd</sup> ed. eText in WileyPlus

Week	Dates	TOPIC	Ch Readings	What is DUE?
1	1/20-1/21	Microscope Introduction Cell Structure Review Tissue Review	Ch 3 Ch 4	
2	1/27-1/28	Homeostasis – Heart Rate <i>Lab Organization, Scientific Method, Graphing, Data Analysis</i>	Ch 1	Lab Assignment 1 DUE
3	2/3-2/4	Diffusion and Osmosis	Ch 5	Lab Assignment 2 DUE <b>Presentation topic DUE</b>
4	2/10-2/11	Cellular Communication Hormones I and II	Ch 6 Ch Ch 23 (Hormones)	Lab Assignment 3 DUE
5	2/17-2/18	Neuronal Conduction	Ch 7	Lab Assignment 4 DUE <b>Methods for lab report 1 DUE</b>
6	2/24-2/25	Sensory Physiology	Ch 9	Lab Assignment 5 DUE <b>Introduction for lab report 1 DUE</b>
7	3/2	Muscular Contraction	Ch 11	Lab Assignment 6 DUE <b>Results for lab report 1 DUE</b>
8	3/9	Cardiac Output	Ch 15	Lab Assignment 7 DUE <b>Discussion for lab report 1 DUE</b>
9	3/17-3/18	<i>Spring Recess (3/18-3/19) – No Lab Class this week!</i> <b>Lab Report 1 – Due 3/16</b>		
10	3/24-3/25	Blood Typing / Blood Pressure	Ch 16	Lab Assignment 8 DUE
11	3/31-4/1	Ventilation and Gas Exchange	Ch 18	Lab Assignment 9 DUE “How to Make a Presentation”
12	4/7-4/8	Urine Analysis	Ch 19	Lab Assignment 10 DUE
13	4/14-4/15	Chemical Digestion Analysis	Ch 21	Lab Assignment 11 DUE
14	4/21-4/22	Pathophysiology Presentations I		Lab Assignment 12 DUE Summary of Presentations I DUE
15	4/28-4/29	Pathophysiology Presentations II		Summary of Presentations II DUE <b>Lab Report 2 DUE</b>

\* Although I will do my best to adhere to this schedule, it is a tentative schedule that is subject to change during the course due to student progression. I will announce any necessary changes to the schedule during lecture, on MyCMU announcement blog, or via email announcement.