

EVPP 210: Molecules & Cells

David King Hall Room 3021

Laboratory Syllabus – Fall 2025

EVPP 210-201 (CRN 71449): Thursday 9:00 AM–11:45 AM

EVPP 210-202 (CRN 79644): Thursday 12:00 PM–2:40 PM

EVPP 210-203 (CRN 79645): Thursday 3:00 PM–5:40 PM

Instructor:

Tara Snedgen

Email: tsnedgen@gmu.edu

Office: DKH 3038

Office Hours: Mondays, 3:00–4:00 PM, or by Appointment (Send e-mail to schedule)

Lab Manual: *Introductory Cell Biology: Lab Manual*, 2nd edition, George Mason University
Other course materials will be posted in Canvas under your section.

SCHEDULE

Lab Date	Quizzes	Lab Exercises	Assignments
8/28/25		- Introduction, Lab Safety, & Math/Chem Review - Experiment 1: Scientific Method & Sample Size	- Math/Chem Review (due 8/29 (Friday) @ 11:59 PM) - Lab worksheet
9/4/25		- LABOR DAY: No lab this week	- Sleep, sleep, & sleep
9/11/25	- Quiz #1	- Experiment 2: Introduction to Microscopy	- Lab worksheet
9/18/25		- Experiment 3: Qualitative Analysis of Biomolecules	- Lab worksheet
9/25/25	- Quiz #2	- Experiment 4: Extraction of Proteins	- Lab worksheet
10/2/25		- Scientific Writing: GMU Library Services - Writing Activities: In Class	- Activity worksheets (in class)
10/9/25		- Experiment #5: Analysis of Proteins	- Lab worksheet
10/16/25		- FALL BREAK: No lab this week	- Sleep, carve a pumpkin, and sleep
10/23/25	- Quiz #3	- Experiment 6: Enzyme Activity Part I	- Lab worksheet
10/30/25		- Experiment 6: Enzyme Activity Part II	- Lab worksheet
11/6/25	- Quiz #4	- Experiment 9: Extraction and Analysis of Nucleic Acids	- Lab worksheet

11/13/24	- Quiz #5	- Experiment 7: Extraction and Analysis of Plant Pigments	- Lab worksheet
11/20/24	- Quiz #6	- Experiment 10: DNA Fingerprinting, Peer review, final practical study guide	- Lab worksheet
11/27/24		- THANKSGIVING BREAK: No lab this week	- Study for the practical, turkey, and sleep
12/4/24		- Comprehensive Practical: Taken during regular lab time	- Full lab report DUE 12/4/2025–12/8/2025 (Last day of classes)

Green = 200-level courses student evaluations

Yellow = Withdrawal period

Grading

Math/Chem Review	n = 1; 5 points	5 pts
Lab worksheets, <u>lowest dropped</u>	n = 11; 5 pts each (drop lowest)	50 pts
6 quizzes, <u>lowest dropped</u>	n = 6; 10 pts each (drop lowest)	50 pts
Enzyme Laboratory Report	n = 1; 25 points	25 pts
Final Lab Practical Exam	n = 1; 20 pts	20 pts
Total		150 pts

Material

Quizzes are **(1)** given **online** via Canvas; **(2)** made available **Sundays @ 12:00 AM to Tuesdays @ 11:59 PM (Grades checked on Wednesdays)**. Students are responsible for keeping track of quiz due dates via the schedule above and on Canvas. ***NO*** makeup quizzes are offered. Quiz questions will come from previous lab exercises, the current week's pre-lab reading, and prior pre-lab lectures. The lowest quiz score will be dropped at the end of the semester during final score calculations.

Lab worksheets are **(1)** due the **day after lab (Friday)** by **11:59 PM**; **(2)** turned in via Canvas. ***NO*** late worksheets will be accepted. Points may be deducted from worksheet grades due to incomplete answers, failure to follow directions, or lack of participation in class. The lowest worksheet score will be dropped at the end of the semester during final score calculations.

A **Comprehensive lab report** will be written on the Enzyme Exercise #6 Part I and II experiments. Students will receive continual guidance and instruction throughout the semester via pre-lab lectures, PowerPoints, peer-review, and other materials. Detailed instructions will be provided during lab and posted on Canvas. Students will submit their final version of the report, due at the time of the comprehensive practical (December 4).

A **Comprehensive practical** will be administered during the final lab period. This test requires students to demonstrate critical thinking skills and proficiency in the theoretical and technical aspects of the lab exercises (e.g., performing dilutions, using a

spectrophotometer, interpreting results, etc.) Tardiness will not be tolerated for the lab practical. Students are expected to arrive at **the start of their lab section**; tardy students will not be permitted to attend or make-up the practical outside of the designated time.

Attendance

Students are expected to attend lab, prepared to begin at the designated start time. Students who are tardy to lab risk missing important materials and information regarding that week's experiment. Students 5+ minutes late will not be permitted to attend or complete that week's lab.

Due to scheduled lab room use by other courses, length of experiments, and lengthy set up,

Labs are conducted face to face for a reason; to provide hands-on opportunities for students to utilize and apply information presented in lecture in a laboratory setting. Therefore, there will also be *NO* alternative assignments offered for missed labs.

If you develop a prolonged physical illness or are dealing with circumstances that may require class absences, please contact both myself and Dr. Peters immediately to discuss potential options and get you the help you need.

Email Policy

I do not respond to emails during the weekends, starting Friday at 5:00 pm, and do not expect any of my students to do the same. Additionally, please allow **at least 48 hours** for a response to all emails. Therefore, be proactive in determining what questions you have and do not leave things until the day of/before a quiz or assignment.

Honor Code

Student members of the George Mason University academic community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work. While you will be working within a group of students, the work you turn in must be your own work. You and your lab partner(s) may have the same data, but you must present the data your own way, and express your conclusions in your own words.