
CHEM 327 Lab – Spring 2026

Melissa A. Mullen Davis, Ph.D.

218 Caputo Hall

717-871-7439

melissa.mullendavis@millersville.edu

Office Hours:

Wed 10-12, Thurs 12:30-2:30, Fri 10-11, and appointment

Meeting Times:

Wednesday 2:00 pm – 4:50 pm

COURSE DESCRIPTION

CHEM 327 is a continuation of *Biochemistry I*. The major focus is to understand the chemistry behind the function of biological compounds involved in cellular processes and metabolic pathways. Specific topics include enzyme mechanisms and energetics, membrane dynamics, replication, transcription, protein translation, and signal transduction.

REQUIRED LAB MATERIALS

- Laboratory Notebook: permanently-bound composition notebook. A variety of colors and styles are available for purchase in lab for \$1.
- A calculator with root, logs and antilogs will be required. Some cheap calculators that work well are the Casio FX260, the Sharp 501WBBL, and the Texas Instruments TI30X. These calculators, and many others appropriate for this course, are available for less than ten dollars.
- Access to D2L (<https://millersville.desire2learn.com>) and university email

LABORATORY COMPONENT

Biochemistry 2 laboratory will focus on providing you with additional laboratory experience in common techniques used in biochemistry and molecular biology. We will have four (4) laboratory experiments, some of which will require several weeks to complete and additional laboratory activities. Please let me know if you have any special circumstances (allergies, pregnancy, etc) that might require alternative arrangements for you to work safely in lab.

Lab evaluation for each experiment will consist of:

- Pre-Lab Questions on D2L 5 pts
- Data Analysis/Post-Lab variable ~15-30 pts
- Laboratory Notebook 5 pts

Additional laboratory activities will be assigned points as appropriate.

You are expected to respect and follow all safety instructions given in lab. Information about laboratory experiments (background info, protocols, information, representative data) will be posted and accessible on D2L.

DEADLINES

Pre-Lab questions will be completed in D2L and will be due **8 am on Wednesday**.

Lab assignments should be submitted to D2L by the appropriate deadline (see Lab Schedule).