

Chemistry 18B, General Chemistry Lab, Summer 2025

Instructor: Dr. Michael Vela

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Office: Gerstenzang - 121

Office hours: T & Th 11-12

Lab Sessions: Wednesday and Friday, SSC 00-10
1:00-5:30 PM

Course description:

Chemistry 18B is the companion course to Chemistry 11B. It is designed so that the experiments follow the lecture topics giving students a hands-on way to help them understand the material they are learning. In addition to reinforcing and practicing all techniques learned in Chemistry 18a, this course will introduce titrations as well as some basic synthetic techniques.

Prerequisites: Chem. 11A and 18A or approved equivalents. Chem. 11B must have been completed or be taken along with this course. If Chem. 11B is dropped before the end of the course, permission to continue in the lab course may, in some cases, be granted, but requires the written approval of the lab instructor.

Materials:

- *Chem. 18/19 General Chemistry Laboratory Manual*, is located on Latte!
- Bound laboratory notebook with carbonless duplicate pages (bookstore).

LATTE:

LATTE is our on-line course website. Templates for lab reports will be available on LATTE. To access LATTE, go to <http://latte.brandeis.edu> and log in using your UNET ID and password.

Attendance:

Attendance at all labs is required. You are expected to arrive in time to have turned in all your written materials so that the lab can start promptly with the pre-lab talk at 1:00. **Make-ups for missed labs** will be allowed ***only with a documented medical excuse***. Late arrival will result in a penalty of 10% assessed to the grade of the lab report for that experiment.

Final Exam: August 9, 9:00-12 noon

Grading:

Grades will be calculated as follows:

Lab reports	60%
Final exam	30%
Lab performance and preparation	10%

Preparation for Lab:

- Read the experiment in the lab manual **thoroughly**.
- Complete the prelab assignment. *This must be handed in for grading before you will be allowed to begin the lab. If it is not complete when you arrive in lab, you will still be required to complete it before you start the experiment, but the 10% late penalty will be assessed to your report.*
- Write in your notebook:
 - Title, Date, Purpose of experiment
 - List of equipment and chemicals
 - Procedure (leave the right-hand half of each page blank to record your observations during the experiment)
- Bring lab manual, lab notebook, and scientific calculator to each lab session

Lab Reports:

A complete lab report must include

- Title, Date, Purpose of experiment
- Abstract (brief overview of the experiment and summary of results and conclusions)
- List of equipment and chemicals
- Procedure
- Observations
- Table of data
- Calculations
- Discussion questions
- Graphs (if applicable)

Prelab assignment and written preparation (see above):

Your T.A. will check your lab notebook when you arrive to verify that you have done all required written preparation for the experiment. If this is not complete, you will be considered “unprepared” to perform the lab and will be required to schedule a make-up lab at a 50% penalty.

Lab Report Due Dates:

Unless otherwise specified, all lab reports are due at the beginning of the next lab session. Late reports will receive a 10 % penalty if handed in within the first 24 hours after the report is due. If not handed in within 24 hours, the penalty will be 25% for each day the report is late.

Academic honesty:

Academic integrity is central to the mission of educational excellence at Brandeis University. Violations of University policies on academic integrity, described in Section Three of *Rights and Responsibilities*, will not be tolerated and may result in a failing grade in the course or on the report or exam in question. A repeat offense may result in suspension or dismissal from the University.