

Syllabus for Chem 1201 Laboratory Section W6B (3469), Fall 2023

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Office Hours: 5:30 – 6:30 pm W, rm 1159 Ingersoll

LABORATORY SCHEDULE:

Laboratory will meet on Wednesdays from 6:30 – 9:15 PM in room 237.

REQUIRED TEXTS:

- *Experiments in General Chemistry*, M. N. KobraK, Ed., Fourth ed. Kendall/Hunt, Dubuque, IA, 2017 (2012).

LAB INSTRUCTIONAL VIDEOS: <http://userhome.brooklyn.cuny.edu/mkobraK/labvideos.html>

REQUIRED ITEMS:

- Scientific calculator
- Lock for lab drawer
- Matches
- Dish detergent, paper towels

LEARNING OBJECTIVES FOR CHEMISTRY 1201

Upon completion of this course, students should:

- Understand the basic physical principles underlying chemistry and be able to apply them both to qualitatively explaining phenomena and to quantitatively predicting or interpreting outcomes.
- Be able to perform simple chemical techniques and apply chemical theory in the laboratory setting.
- Understand and be able to explain fundamental ideas in the practice of science, including appropriate practices with respect to record-keeping, safety, and treatment of data.

GRADING:

Your final grade will be a weighted average calculated as follows: 70% Laboratory Reports 15% Laboratory Quizzes 15% Final Examination	Final grades are not curved, but are set according to the following scale:	
	95 or higher: A+ 87-95: A 85-87: A– 82-85: B+ 72-82: B 70-72: B–	68-70: C+ 62-68: C 58-63: C– 50-58: D* Less than 50: F
*Note: If you earn a grade of D, that is the grade you will receive. Requests to change it to an F will not be honored.		

QUIZ/EXAM SCHEDULE:

FIRST LAB QUIZ: SEPTEMBER 27TH

SECOND LAB QUIZ: NOVEMBER 1ST

FINAL EXAM: *CHECKOUT DAY* DECEMBER 6TH

IMPORTANT DATES:

August 31	Last day to add a course
September 4	College Closed
September 14	Last day to withdraw without a "W" grade
September 15-17	No Classes
September 25	No Classes
October 9	College Closed
October 10	CONVERSION DAY: Classes follow a Monday schedule
November 22	No Classes
November 23-24	College Closed
November 25-26	No Classes
December 11	Last day of classes, last day to withdraw from a course with a grade of "W"
December 12-13	Reading Day

COUNSELING

Health Professions Counseling	Benjamine N. Stewart, benjamin.stewart@brooklyn.cuny.edu	Advice on preparing for health professions programs, including both choosing courses and identifying extracurricular activities.
Dept. of Chemistry Undergraduate Advisor	Andrzej Jarzecki, jarzecki@brooklyn.cuny.edu	Advice on choosing the right course in chemistry, declaring a major, and planning for a career in chemistry.
Chair, Department of Chemistry	Brian Gibney, bgibney@brooklyn.cuny.edu	General concerns about studies in chemistry and specific issues that cannot be resolved first with the course instructor may be brought to the Chair's Office Hours 3:30-4:30 in 359 IA (no hours 10/12 or 11/2 in F 23).

Academic dishonesty is prohibited in the City University of New York.

The faculty and administration of Brooklyn College support an environment free from cheating and plagiarism. Each student is responsible for being aware of what constitutes cheating and plagiarism and for avoiding both. The complete text of the CUNY Academic Integrity Policy and the Brooklyn College procedure for policy implementation can be found at <http://www.brooklyn.edu/policies>. If a faculty member suspects a violation of academic integrity and, upon investigation, confirms that violation, or if the student admits the violation, the faculty member MUST report the violation. Students should be aware that faculty may use plagiarism detection software. Students caught cheating may be given a range of possible academic sanctions up to and including the assignment of a failing grade for the course. This is in addition to any possible disciplinary sanction assigned by the college administration.

Student Disability Services

The Center for Student Disability Services (CSDS) is committed to ensuring students with disabilities enjoy an equal opportunity to participate at Brooklyn College. In order to receive disability-related academic accommodations, students must first be registered with CSDS. Students who have a documented disability or suspect they may have a disability are invited to schedule an interview by calling (718) 951-5538 or emailing Josephine.Patterson@brooklyn.cuny.edu. If you have already registered with CSDS, email Josephine.Patterson@brooklyn.cuny.edu or testingcsds@brooklyn.cuny.edu to ensure accommodation emails are sent to your professor.

Student Bereavement Policy

Students who experience the death of a loved one during the semester should consult the student bereavement policy here: <http://www.brooklyn.edu/policies/bereavement/>

Non-Attendance Due to Religious Beliefs

Students who are unable to attend class due to religious observations should consult the Brooklyn College Undergraduate Bulletin for the college's policy, and contact the lecturer to discuss the issue. Students must come forward with the issue in a timely manner.

Pass-Fail Option:

Details regarding taking courses on a pass/fail basis are given in the Brooklyn College bulletin. Students interested in this option should read the bulletin carefully, as they may not be eligible to do so; questions should be directed to the Registrar. Also note that the deadline to declare an intention to take a course Pass-Fail varies from semester to semester, but generally falls within the first two weeks of the course (contact the Registrar for the specific date). After this deadline, it is impossible to take the course Pass-Fail.

General Information:

You must bring the lab manual to the FIRST lab meeting, since an experiment is done during that meeting.

Before coming to laboratory, read the scheduled experiment and any other material assigned. Unless otherwise noted, page numbers refer to your laboratory manual. You must bring the lab manual to each lab class.

Brooklyn College recognizes the importance of reproductive hazard awareness and protection. During laboratory exercises students may be exposed to chemical reagents that may present specific risks to reproductive health, especially students who are pregnant. Therefore, it is strongly recommended that you do not take this course if you are pregnant. If you become pregnant during the semester, please consult with your laboratory instructor.

If you need to leave the laboratory before completing your experiment, you must inform the instructor. Leaving the laboratory without informing the instructor can result in penalties applied to your laboratory grade.

NOTE: SAFETY GOGGLES MUST BE WORN IN THE LABORATORY! The goggles must be indirectly-vented to offer splash protection. New goggles are provided in your lab kit. **If your instructor observes you violating eye protection or other safety policies, you can be removed from the laboratory and/or given a 10% (or higher) penalty on your laboratory report grade.**

Scientific data requires special treatment. It must be recorded in non-erasable **INK** in your lab book immediately after a measurement is taken; partners cannot copy each other's data at a later time. **Altering or copying data outside of the laboratory represents academic dishonesty and will be prosecuted as such if observed.** Further, you will receive no credit for any lab report that includes data that are not your own. If your data are messy, you may copy them over onto a final report, but you must include your original data when you turn in your report. You **MUST** get your instructor's initials on your data sheet **before** you begin the lab **and** when you finish the lab and are ready to leave.

Lab reports are due in lab the week after the experiment was concluded unless you obtain permission from your instructor. All lab reports not handed in will receive a grade of zero. **Late** lab reports are penalized as follows: 10% off for 1 week or less lateness and 20% off for 2 weeks late; lab reports that are more than two weeks late are not accepted.

Students who miss a laboratory:

Multiple sections of Chemistry 1201 run, and students who miss a section of their assigned laboratory must make it up in another section as soon as possible. To do this, they should go to the lab period in which they wish to make up the experiment, identify themselves to the instructor in that section, and (if given permission) perform the work. After the experiment is complete, the student must present their data sheet to the instructor for that section to sign. The instructor for your registered section will not accept makeup work if it is unsigned. Students may not make up more than two laboratory periods in this way.

Schedule of Lab Experiments in Chemistry 1201

Make sure to read the assigned laboratory experiment before coming to class.

Meeting	Laboratory Assignment
1	Introduction to Laboratory: <i>Check in, Lab safety</i>
2	Experiment 1: Density and Measurement <i>Return safety quiz and the signed safety sheet</i>
3	Experiment 2: Introduction to Gravimetric Analysis
4	Experiment 3: Synthesis of Zinc Iodide
5	Experiment 4: Basics of Chemical Reactions
6	Experiment 5: Volumetric Analysis: Acid-Base Titration
7	Experiment 6: Introduction to Calorimetry
8	Experiment 7: Evaluation of the Gas Law Constant
9	Experiment 8: Determining Atomic Emission by Spectroscopy
10	Experiment 9: Synthesis of Aspirin
11	Experiment 10: Spectrophotometric Analysis of Aspirin
12	Experiment 11: Intermolecular Forces and Physical Properties
13	Experiment 12: Determination of Molecular Weights by the Method of Freezing-Point Depression
14	Check out and Review – <i>No experiments are permitted</i>

As an educator, I support the rights of undocumented students to an education. If you have any concerns in that regard, feel free to discuss them with me, and I will respect your wishes concerning confidentiality. For resources and support, please visit Brooklyn College's Immigrant Student Support Office located at 17 Roosevelt Hall. You can also contact them via email at ISSO@brooklyn.cuny.edu or via phone at 718-951-5023.