



CHEM 18 – A : General Chemistry I

Summer 2018

Brandeis University
Chemistry Department

Course Title	General Chemistry I (Lab Section)
Course #	CHEM 18 - A
Credit Hours	A 2-credit-hour lab.
Semester	Summer 2018
Prerequisites	None
Class Meetings	Tuesday and Thursday, 1:00 – 5:00 pm; SSC 00 - 10

INSTRUCTOR INFORMATION

Instructor	Angeline Wairegi
Office Location	TBA
Office Hours	Monday, 3:00 pm – 4:00 pm; Wednesday. 3:30 pm – 4:30 pm
Phone Number(s)	TBA
E-Mail Address	angelinewairegi@brandeis.edu

COURSE DESCRIPTION

Course Description	Chemistry 18A is the companion course to Chemistry 11A. 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. No prior experience in a laboratory setting is assumed, and instruction in the use of all equipment will be provided. This course will expose students to a wide range of laboratory techniques and concepts, beginning with basic measurements, pipetting, and an understanding of quantitative error. Students will also be introduced to computer data collection, analytical chemistry, qualitative analysis, and instrumental analysis. Pre- or co-requisite: Chem. 11A or an approved equivalent. If Chem. 11A 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.
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Description of Assessment Methods	Grades will be calculated as follows: Lab reports - 60%, Final exam - 30%, Lab performance and preparation - 10%.
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COURSE REQUIREMENTS

Instructional Methods	There will be a combination of instructor pre – lab lecture and active learning methods (pre-class, in class and post-class assignments) to help you achieve the learning objectives of this course.							
Grade Points	<u>Letter Grade</u>	<u>At Least</u>	<u>Below</u>	<u>Value</u>	<u>Letter Grade</u>	<u>At Least</u>	<u>Below</u>	<u>Value</u>
	A	93		4.00	C	73	77	2.00
	A-	90	93	3.67	C-	70	73	1.67
	B+	87	90	3.33	D+	67	70	1.33
	B	83	87	3.00	D	63	67	1.00
	B-	80	83	2.67	D-	60	63	0.67
	C+	77	80	2.33	F	60	60	0.00

COURSE MATERIALS

		Title (Edition)	Pub. Year	Publisher or Website	Platforms / Online sites associated with textbook
Book		Current Chem. 18/19 General Chemistry Lab. Manual, (available on LATTE)			

Other Course Materials:

- Bound laboratory notebook with carbonless duplicate pages (bookstore)
- Safety Goggles, UVEX S3960C (bookstore or online stores such as AMAZON.com, or email Lab Supervisor: Natalia Neiman slutskay@brandeis.edu for further details)

COURSE CALENDAR AND SCHEDULE

Week	Day/Date	Weekly Topics and Events	Quizzes, Tests, Major Assignments Due Dates
1	June 5	Chapter 2: Atoms and Elements.	



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	June 7	Exp. 3: Periodic Trends	Lab Report Exp. 1 and 2 Due
2	June 12	Expt. 4a: Oxalate synthesis	Lab Report Exp. 3 Due
	June 14	Exp. 5: Titration of oxalates	Lab Report Exp. 4 Due
3	June 19	Exp. 6: Heat of formation	Lab Report Exp. 5 Due
	June 21	Exp. 7: Boling point, Density, IR	Lab Report Exp. 6 Due
4	June 26	Exp. 8a: Evaporation, VP, Structure	Lab Report Exp. 7 Due
	June 28	Exp. 9: Condensation, Freezing point depression	Lab Report Exp. 8 Due
5	July 3	TBA	Lab Report Exp. 9 Due
	July 5	FINAL EXAM	

ACADEMIC AND OTHER SUPPORT SERVICES

LATTE	LATTE is the Brandeis on-line course website. Templates for lab reports may be available on LATTE, or in class. To access LATTE, go to http://latte.brandeis.edu and log in using your UNET ID and password.
Reasonable Accommodations	If you are a student entitled to accomodations (extra time on exams, for example), please provide official documentation at the beginning of the semester so that all appropriate accomodations can be made. No accomodation can be made retroactively.

COURSE POLICIES



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<p>Attendance and Class Participation</p>	<p>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 pm. Make-ups for missed labs will be allowed only with a documented medical note. Late arrival will result in a penalty of 10% assessed to the grade of the lab report for that experiment.</p>
<p>Code of Academic Honesty</p>	<p>Brandeis University views the principle of academic integrity as a fundamental institutional value and the responsibility of the entire campus community to uphold. Students are expected to meet the university's high academic standards through honest endeavor; therefore, violations of university policies on academic integrity, described in section 3 of Rights and Responsibilities, is not tolerated and may result in failing grade in the course or on the quiz or exam in question. A repeat offense may result in suspension or dismissal from the university.</p>
<p>Preparation for Lab</p>	<ul style="list-style-type: none"> • Read the experiment in the lab manual thoroughly. • Before attending the lab, 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: <ul style="list-style-type: none"> ○ 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
<p>Lab Reports</p>	<p>A complete lab report must include :</p> <ul style="list-style-type: none"> ○ 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)
<p>Pre-lab preparation</p>	<p>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 makeup lab at a 50% penalty.</p>
<p>Lab Report Due Dates</p>	<p>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</p>



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	not handed in within 24 hours, the penalty will be 25% for each day the report is late.
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The schedule and material in this syllabus may be updated or changed upon the instructional needs of students in the course and any changes in College schedules.

Created by: Angeline Wairegi

Last updated: May 2018

Maintained by: Angeline Wairegi