

CHEMISTRY 1311 B – Fall 2022
Course Information and Syllabus

COURSE WEBSITE:

Please notice that you will need to access 3 separate websites:

1. The UoO Bright Space System is for inspecting your gradebook.
2. The link <https://mysite.science.uottawa.ca/sgambarotta/content/chm1311-b> (Course Website) is to find all the course material (General info, past year exams, slideshows, etc.)
3. The Wiley+ web site (see below) is for assignments and home practice midterm.

PROFESSOR:

Prof. Sandro Gambarotta
D'Iorio 305
Email: sgambaro@uottawa.ca
Cell: 613 866-6927

OFFICE HOURS:

by e-mail appointment

TEACHING ASSISTANTS (TA's)

DGD (for consulting on exercises).

B02

Youssef Ahmed.

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B01

Torrens Aidan

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marking & gradebook (to be contacted in case of errors in the gradebook. To identify your TA check the range of letters encompassing your family name)

Bakhshi Bahare bbakh088@uottawa.ca

AAA-DOW

Facuri Villela Lucas. lvill061@uottawa.ca

DOYO-KHAR

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PAU-ZZZ

CLASS SCHEDULE:

Monday

Tuesday

Wednesday

Thursday

Friday

Lecture 11:30-12:50		Lecture 1:00-2:20
	DGD-B02 (starts Sept 13 th) 5:30-7:00	DGD-B01 (starts Sept 15 th) 2:30-4:00

COURSE MARKS:

Your mark is based on two parts: the lecture (75%) and the laboratory portion (25%).

LAB (25%). IMPORTANT!!!! (failure to obtain a pass mark on the lab will result into an F mark for the entire course. Please give to the lab serious consideration)

Lab Coordinator: Dr. Rashmi Venkateswaran, vrashmi@uottawa.ca

The lab component of CHM 1301/1311 will count for 25% of your final course grade. At **any** time, if you have **any** questions regarding the lab component of CHM 1301/1311, please contact Dr. Rashmi Venkateswaran at vrashmi@uottawa.ca

For your lab schedule (including lab tutorials) and other details, consult the Gen Chem Lab website on Brightspace. You can download and print what you want/need at your own convenience.

Lecture Portion (75%)

The lecture portion counts for the remaining **75%** of your final grade. This mark is the result of a few components. Since you may “opt-out” of the online assignments if you so desire, there are two possible evaluation schemes:

			With homework	Without homework
Post-chapter (Assignment on Wiley+)	On-line	Homework	10%	–
Midterm home practice test (Oct 2nd 6:00– 8:00 pm)		(on Wiley+)	10%	
Mid 1 (Oct 20 class time on the program covered from the beginning to the midterm date.)			10%	10%
Mid 2 (Nov 24 class time on the program from the 1 st midterm to 2 nd midterm date)			15%	15%
Final Exam (TBA on the entire program)			30%	50%

Lectures will be recorded on ZOOM for your reviewing convenience. To access the recordings, go to your BrightSpace webpage for CHM 1311B and click on ZOOM on the top menu bar. Search for the specific lecture in the ZOOM cloud.

Post-Chapter ON-LINE HOMEWORK Wiley plus (10%)

A total of 11 assignments, which will be worth **10%** of your final mark, will be made available online at the W+ website (see below).

When an assignment is announced, please login onto your account at the Wiley+ website. You do not have to complete the whole assignment in one sitting; you can save your work at any point. Only: **BE AWARE OF THE DUE DATE** posted on the assignment.

Each assignment will give you a score of **either zero or 1** depending on whether you scored less or more than 50%. (50% will translate into a zero). These marks will be reported on the Bright Space gradebook after about one week. Of the total **11 assignments, your best 10** will be counted at the end of the semester. (an assignment total of either 10 or 11 will translate into 10%).

MIDTERM W+ test (10%)

This a test with the same format of the two class midterms but it will be done within a longer time interval and outside class time. It will be administered via the **Wiley+** similarly to the weekly assignments.

Two MIDTERMS class time (10% and 15%)

FINAL EXAM 30% (or 50% if you opt out the W+)

Comprehensive of all the course subject matter. Timing and format (on line or in presence) will be decided by the Faculty.

DGDs (0%) Starts September 13 and 15th for B02 and B01 respectively

The Faculty has assigned you to either B01 or B02 for logistic reasons. Participation to DGD is not mandatory and it will give you no mark. However, it will be a great studying moment. End of the chapter exercises from your textbook will be treated by the TA. The list of these exercises will be posted in advance to allow you decide whether or not you want to attend the DGD. The DGD is supposed to be as interactive as possible for your maximum benefit. The TA will NOT entertain questions relating to your lab reports – if you have questions or need help with lab reports, talk to your lab demonstrator or go to the lab tutorials (that's what they are for!).

RECOMMENDED TEXT (see below for the opting-out option):

The text that we will be using as an official reference for this course is **Chemistry, 4th Canadian Ed. by Olmsted, Williams, and Burk**. A few hard copies will be on reserve at the bookstore. **However**, you can conveniently purchase the WileyPLUS system (89\$), which will give you, in addition to testing, practicing and assignments, also the e-textbook. The publisher gives you the option, for additional cost (10\$), to purchase a permanent license for e-textbook. Purchase of WileyPLUS can be done through Registration through the WileyPLUS shopping cart with your credit card.

YOUR ACCESS to WILEYPLUS: www.wileyplus.com

Registering :
students can go to www.wileyplus.com to purchase the license and enter the below Course ID below to register:

CHM1311 B00 Course ID: B86187 Prof. Sandro Gambarotta.

Please be aware that there are two sections for this course, B & F. Your section is B!! Please, make sure that you will stick with section B while purchasing the W+ license and registering.

A W+ flyer is posted on the course webpage.

<https://mysite.science.uottawa.ca/sgambarotta/content/chm1311-b>

OPTING OUT THE WILEY+ (and using alternative textbooks):

You are allowed to opt out the W+ with no penalty to your final course mark. The marking scheme will obviously change (see above) and you must notify me by email no later than **September 30th**.

COURSE SYLLABUS:

Lecture presentations will be **recorded on ZOOM**. Minor modifications about the schedule may be possible

Topic
Brief Introduction + Stoichiometry and Equations Ch1

Stoichiometry and Equations	Ch1
Stoichiometry and Equations . Redox	Ch 1 & Ch 17
Atoms and Light.	Ch 4
Atoms and Light.	Ch 5
Chemical Bonding.	Ch 6
Chemical bonding	Ch 7
Home midterm (Oct 2nd 6:00 - 8:00 pm)	
The Behaviour of Gases	Ch 2
The Behaviour of Gases	Ch 2
Principles of Chemical Equilibrium	Ch 14
Principles of Chemical Equilibrium	Ch 14
Kinetics: Mechanisms and Rates of Reactions	Ch 13
Kinetics: Mechanisms and Rates of Reactions	Ch 13
1st MIDTERM class time (Oct 20st)	
Reading week	
Kinetics: Mechanisms and Rates of Reactions	Ch 13
Acid-Base Equilibria	Ch 15
Acid-Base Equilibria	Ch 15
Energy and Thermochemistry	Ch 3
Energy and Thermochemistry	Ch 3
2nd Midterm class time (Nov 24th)	
Energy and Thermochemistry	Ch 12
Applications of Aqueous Equilibria (Buffers and Solubility)	Ch 16
Applications of Aqueous Equilibria (Buffers and Solubility)	Ch 16