

CHEMISTRY 1311 F – Fall 2017
Course Information and Syllabus

COURSE WEBSITE: <http://mysite.science.uottawa.ca/sgambarotta/chm1311-e.html>

PROFESSOR:

Prof. Sandro Gambarotta
D'Iorio 305
562-5800 ext. 2849
Email: sgambaro@uottawa.ca

OFFICE HOURS:

Tuesday After class, MNT
Wednesday 12h00 – 13h30, DRO 305
Thursday After class, MNT
*or by appointment

TEACHING ASSISTANTS (TA's)

Eckert Philip peckert@uottawa.ca
Elsby Matthew melsb080@uottawa.ca
Southern Scott ssout070@uOttawa.ca

CLASS SCHEDULE:

Monday	Tuesday	Wednesday	Thursday	Friday
	Lecture 10:00-11:30 MNT 203		Lecture 8:30-10:00 MNT 203	
			DGD (starts Sept 7 th) 17:30-19:00 MNT 202	

LAB SCHEDULE: (see below)

COURSE EVALUATION:

Your mark is based on two parts: the lecture portion and the laboratory portion. The lab portion is fixed at 25% .

The lecture portion counts for the remaining 75% of your final grade, but its calculation 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 Homework (Assignment on	10%	–

Wiley+)		
Attendance (at least 85% of all lectures)	5%	5%
Midterm test (at home on Wiley+) (Oct 4 th 7:00 – 8:30 pm)	5%	
Mid 1 in class (Oct 17)	10%	10%
Mid 2 in class (Nov 21)	15%	15%
Final Exam (TBA)	30%	45%

Please note: In order to receive a passing grade in this course, you are required to obtain a MINIMUM of 50% in the lecture component AND 50% in the lab component of the course.

LAB (25%)

Lab Coordinator: Dr. Rashmi Venkateswaran, 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.

IMPORTANT NOTES ABOUT THE LAB:

- The lab Starts in the week of September 12 and you will have to know the lab section in which you registered to know your lab schedule. You can find your lab section online. If you print your timetable in table format, the lab section is the number in brackets next to CHM LAB (x). Once you know your lab section, go to the CHM LAB website on Brightspace to see the schedule. Please bring a printout of your timetable to the lab, to verify that you are in the correct lab section. Please read the lab web site information BEFORE coming to your first lab session.
- You MUST purchase safety glasses (\$4 - \$9) and a lab coat (\$20 - \$30) BEFORE coming to the lab. These are available in various places, including the Agora (student book store), the Science Students' Association and uOttawa Bookstore.
- For ANY query about the lab, please contact the lab coordinator Dr. Venkateswaran
- If you miss a lab due to illness, please obtain a medical certificate, inform your demonstrator and see Dr. Rashmi.

ATTENDANCE (5%)

The Faculty has a policy of 85% mandatory attendance to courses. Your presence will be recorded via the web in class by using your smart phone or laptop

ON-LINE HOMEWORK (10%)

A total of 11 homework assignments and other activities, which can be worth up to **10%** of your final mark, will be made available online at the appropriate times.

These exercises will be administered through a program called WILEY PLUS. These are designed to help you practice solving more complex problems, *after having covered the material in class*. When an assignment is announced, login to the website at any time to work on it (you do not have to complete

the whole assignment in one sitting; you can save your work at any point). 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%. Of the total **11 assignments, your best 10** will be counted to give you the component mark from zero to a maximum of 10.

MIDTERM Home test (5%)

This is a test with the same format of the two class midterms but it will be done in the comfort of your home and open book. It will be administered via the **Wiley+** as for the weekly assignments. The only difference will be that it will be comprehensive and will have the same time constraint you will have in the two class midterms.

Two in-Class MIDTERMS (10% and 15%)

First: In class on the portion of the program covered from the beginning to the midterm date.

Second: In class and on the portion of the program from the 1st midterm to date.

FINAL EXAM (either 30 or 75%)

Final exam will be scheduled and organized by the Faculty. **NO REGRADING for exams written in pencil.**

THERE ARE NO RETESTS:

If you miss the final exam due to illness, please bring a medical certificate to the Faculty of Science to have your final exam deferred to the study week in February. (For more information on final exam deferral, go to www.science.uottawa.ca)

DGDs (0%) begin September 7th

Attendance to DGD is **NOT** mandatory and will give no mark. However, it will be a great studying moment. End of the chapter exercises from your textbook will be treated in class with the guidance of a 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** answer 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!).

GENERAL INFO

HOW TO GET READY FOR MY EXAMS?

The answer is simple: practice, practice and practice again. The most exercises you will do and the best chances you will get. The Wiley+ will have a system incorporated called ORION. It is truly neat and can build you preparedness for your assignment and exams. For every chapter an ORION non-marked tests will be activated. Exams and midterms for the previous year will be also posted for your benefit. In addition, the textbook will have end-of-the chapter exercises to be treated during DGDs.

CALCULATORS:

You will need a *non-programmable* calculator for the tests and for the final exam. You may NOT use cell phones or other electronic devices in place of a calculator during tests or final exams.

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, 3rd Canadian Edition by Olmsted, Williams, and Burk**. Please note that, while purchasing a textbook is not mandatory, it is *strongly recommended*, especially for students in the Faculty of Science, since you can use it as a reference for multiple courses.

-Olmsted Set: Ottawa Chemistry 3CE w/WileyPLUS (\$150.95)

- Olmsted Set: Ottawa Chemistry 3CE Binder Ready Version w/WileyPLUS (\$137.95)

- **WileyPLUS** includes the e-book. WileyPLUS on it's own (\$106.50), can be purchase online at www.wileyplus.com

YOUR ACCESS to WILEYPLUS: www.wileyplus.com

1-WHEN YOU REGISTER FOR THE FIRST TIME AS A STUDENT, type the Course ID (www.wileyplus.com/class/590624) or type University of Ottawa, in the box below "Register for a new class"

2-On the following page, select your "Course" and your "Instructor", and click the **green arrow**

3-On the next page, go to "Create Account" and agree to the terms on the following page

4-You will then be prompted for a registration code, or a payment method, or using the 14 days free trial grace period. After completing this, you can sign in using your username and password.

Video> www.wileyplus.com/register

Need Help?

WileyPLUS Help: Live chat support: www.wileyplus.com/support

Live Chat is Monday-Friday 24 hours/day, Saturday/Sunday 4pm – Midnight!

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

You may certainly do so with no penalty to your course mark. If you let me know at the beginning of the semester that you do not wish to participate in this aspect of the course, I will redistribute your marks as shown in the evaluation scheme on page 2. To be on the “**OPT-OUT LIST**”, you must contact me by email no later than **September 30th 2017**.

COURSE SYLLABUS:

The schedule is tentative and could be slightly modified Lecture presentations will be posted to the course website in pdf format and possibly recorded on ECHO; however, we will be solving problems by hand in class, so bring some paper and a pencil.

Lecture	Date	Topic	
1	Sep 7	Brief Introduction + Stoichiometry and Equations	Ch1
2	Sep 12	Stoichiometry and Equations	Ch1
3	Sep 14	Stoichiometry and Equations . Redox	Ch 1 & Ch 17
4	Sep 19	The Behaviour of Gases	Ch 2
5	Sep 21	The Behaviour of Gases	Ch 2
6	Sep 26	Principles of Chemical Equilibrium	Ch 14
7	Sep 28	Principles of Chemical Equilibrium	Ch 14
8	Oct 3	Kinetics: Mechanisms and Rates of Reactions	Ch 13
9	Oct 5	Kinetics: Mechanisms and Rates of Reactions	Ch 13
10	Oct 10	Kinetics: Mechanisms and Rates of Reactions	Ch 13
11	Oct 12	Acid-Base Equilibria	Ch 15
12	Oct 17	1st MIDTERM in class	
13	Oct 19	Acid-Base Equilibria	Ch 15
	Oct 22-28	Reading week	
14	Oct 31	Energy and Thermochemistry	Ch 3
15	Nov 2	Energy and Thermochemistry	Ch 3
16	Nov 7	Energy and Thermochemistry	Ch 12
17	Nov 9	Applications of Aqueous Equilibria (Buffers and Solubility)	Ch 16
18	Nov 14	Applications of Aqueous Equilibria (Buffers and Solubility)	Ch 16
19	Nov 16	Atoms and Light	Ch 4
20	Nov 21	2nd MIDTERM in class	
21	Nov 23	Atoms and Light	Ch 5
22	Nov 28	Chemical Bonding	Ch 6
23	Nov 30	Chemical Bonding	Ch 7
24	Dec 5	Review	

