

CHEMISTRY 1311 B
Fall 2011
Course Information and Syllabus

COURSE WEBSITE: On virtual campus

<https://maestro.uottawa.ca/indexEN.asp>

Login using your student number and InfoWeb password

PROFESSOR:

Dr. A. Flynn

D'Iorio 407

613-562-5800 ext. 6342

Email: alison.flynn@uottawa.ca (please put CHM 1311 in the subject line and provide your name and student number in the email).

OFFICE HOURS:

Mondays 1:00 pm – 2:30 pm or by appointment

TEACHING ASSISTANTS (TA's)

Tom Markiewicz tmark042@uottawa.ca

Jennifer Bates jbate087@uottawa.ca

Ben Ireland birel023@uottawa.ca

Chris McTiernan chrismct@photo.chem.uottawa.ca

CLASS SCHEDULE:

Monday	Tuesday	Wednesday	Thursday	Friday
Lecture 11:30 am – 1:00 pm MRN AUD		DGD 1 1:00 – 2:30 pm TBT 333 DGD 2 4:00 – 5:30 pm MNT 203	Lecture 1:00 – 2:30 pm MRN AUD	

LAB SCHEDULE:

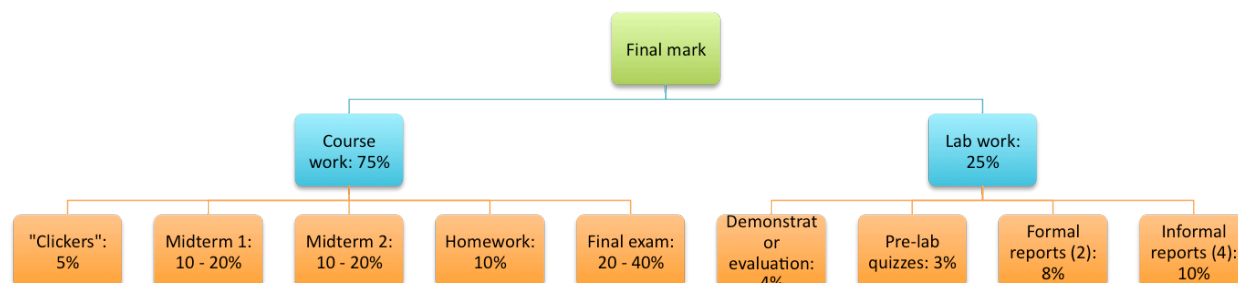
Lab Coordinator: Dr. Rashmi Venkateswaran, vrashmi@uottawa.ca

For your lab schedule (including lab tutorials) and other details, consult the Lab Manual, which you can find as a PDF on the Gen Chem Lab website (on Virtual Campus). You can download and print what you want/need at your own convenience.

IMPORTANT NOTES ABOUT THE LAB:

- You **MUST** purchase safety glasses and a lab coat **BEFORE** coming to the lab. These are available in various places, including the Kiosk on the 3rd floor of Marion (cash only) and uOttawa Bookstore.
- You can find out your lab section on RABASKA. If you print your timetable in table format, the lab section is the number in brackets next to CHM LAB (x). If x is ODD, you are in an odd numbered lab; odd numbered labs start the week of Sept 12; if x is EVEN, you are in an even numbered lab; even numbered labs start the week of Sept 19. You will need to bring a printout of your RABASKA registration to your first lab session, to verify that you are in the correct lab section. Use the SOUTH END STAIRWELL (the stairwell closest to MacDonald Hall) to gain access to the third floor laboratories on your first day.
- There are prelab videos that you must watch and a prelab quiz to be completed for EACH lab, including Lab #1. Go to the Gen Chem Lab website on Virtual Campus for more information.
- Lab report forms will be posted on Virtual Campus and can be downloaded before, during or after the lab, at the your convenience.
- You will perform experiments **ONCE** every **TWO** weeks for Labs #1, 3, 4, 5, and 6. **HOWEVER**, for Lab #2, **ALL** students will complete the lab in the **SAME WEEK**. Students in **ODD NUMBERED** lab sections will complete the lab in the **FIRST HALF** of the lab period. Students in **EVEN NUMBERED** lab sections will complete the lab in **SECOND HALF** of the lab period.

COURSE EVALUATION:



CLICKERS:

A clicker system will be used in the course. More details will follow in class. Please do not purchase any device or pay for any registration until you receive more info in the first class.

CALCULATORS:

You will need a *non-programmable* calculator for the tests and for the final exam. The Faculty of Science has approved the following calculators: Texas TI-30X, TI-30XA, TI-30SLR scientific and non-programmable calculators. You may NOT use cell phones or other electronic devices in place of a calculator during tests or final exams.

ABSENCE:

If you know in advance that you will be missing a midterm for any reason, contact me immediately to discuss the situation (I will not accept non-medical reasons AFTER the tests have taken place!).

If you are ill on the day of a midterm, please bring me a medical certificate to receive exemption from the test ASAP. ***THERE ARE NO RETESTS:*** the weight of the missed test will be redistributed to the final exam. 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) If you miss a lab due to illness, please obtain a medical certificate, inform your demonstrator and see Dr. Rashmi.

QUESTIONS

Please use the discussion forum on virtual campus for all your questions, except those that are personal or confidential in nature.

REQUIRED MATERIAL:

I require that you purchase one of the specially prepared packages available at the University of Ottawa Bookstore. More details about the course textbook will be given in the first lecture.

Copies have been placed on reserve at the library for you.

The pre-prepared packages available at the Bookstore are:

Package #1 – ISBN 0132888432

- Petrucci “General Chemistry” 10th Edition – **Hardcover text**
- Selected Student Solutions Manual
- Davis’ Short Guide to Writing About Chemistry
- Mastering Chemistry Access Code and Welcome Card

Package #2 – ISBN 0132888459

- Petrucci “General Chemistry” 10th Edition – **Looseleaf text**
- Selected Student Solutions Manual
- Davis’ Short Guide to Writing About Chemistry
- Mastering Chemistry Access Code and Welcome Card

Package #3 – ISBN 0132888440

- Petrucci “General Chemistry” 10th Edition – **eBook**
- Selected Student Solutions Manual
- Davis’ Short Guide to Writing About Chemistry
- Mastering Chemistry Access Code and Welcome Card

Package #4 – ISBN 0132888505 (available at the cash)

- Mastering Chemistry Access Code and Welcome Card

IMPORTANT: If you buy a ***used copy*** of Petrucci, you will have to either purchase Package #4 or use a credit card to buy access to MasteringChemistry online. In class, I will be referring to pages/problems in the TENTH edition of the textbook – if you get a copy of a NINTH edition (or earlier), that will be fine, *BUT it is up to YOU* to confirm page/problem numbers.

COURSE MATERIAL (chapters correspond to Petrucci, 10th edition)

Chapter 1	Matter – Properties and Measurement	Review on your own; mentioned in class: 1-4 (SI Units), 1-5 (Dimensional Analysis) and 1-7 (Sig Figs and Rounding)
Chapter 2	Atoms and Atomic Theory	Review on your own; mentioned in class: 2-5 (Atomic Masses), 2-7 (Avogadro Constant and the Mole) and 2-8 (Mole Calculations)
Chapter 3	Chemical Compounds	Review on your own; mentioned in class: 3-3 (Composition), 3-4 (Oxidation State Rules) and 3-6 (Inorganic Nomenclature)
Chapter 4	Chemical Reactions	All sections + Sections 5-4 to 5-6
Chapter 6	Gases	Sections 6-1 to 6-8, Section 6-9 (Real Gases) only qualitatively
Chapter 7	Thermochemistry (ΔH)	Sections 7-1 to 7-8
Chapter 15	Equilibrium (K)	All sections
Chapter 18	Solubility	Review of Section 5-2; Sections 18-1 to 18-7
Chapter 14	Chemical Kinetics	All sections
Chapter 16	Acids and Bases	Review of Section 5-3; Sections 16-1 to 16-7
Chapter 17	Buffers and Acid-Base Titrations	Sections 17-1 and 17-2; brief mention of other sections
Chapter 8	Electrons in Atoms	To be determined
Chapter 9	The periodic table and some atomic properties	To be determined
Chapter 10	Chemical Bonding I	To be determined

**note: ordering of material subject to change*

RE-GRADING REQUESTS

Re-grade requests must be submitted within **1 week of the date that tests are returned in class**. If you find an error in the addition of points on your test, staple a note to the front of your test indicating the source of the error. If you feel your test has been improperly graded, staple a note to the front of your test indicating so – I will personally remark your entire test to ensure that you receive the grade you deserve. **Do not write or change anything anywhere on your midterm or it will not be re-graded and could be sent to the academic fraud committee.** Note that your new mark might be lower than your original mark. Bring the test to me before or after class or ask the secretary at the front desk of D'Iorio to place it in my mailbox.

*****All re-grade requests must be submitted in writing!*****

LECTURES

There is an 80% attendance requirement in the Faculty of Science. Clickers will be used to monitor attendance. If you miss a lecture, it is your responsibility to acquire any notes and assignments for that day from another member of the class.

DGDs

The discussion groups (DGDs) are *optional, but highly recommended*. While you may have been assigned a particular DGD in your Rabaska schedule, feel free to attend one or the other, or even both if you feel the need to do so. In the DGDs, your TA can answer questions related to course material posed in person or posted in the discussion forum on virtual campus. I will NOT answer questions relating to your lab reports – if you have questions or need help with lab reports, talk to your lab demonstrator. Material covered in DGDs will not be posted to the course website. DGDs will begin September 14th.

EVALUATION EXERCISES

Homework:

A total of ten homework assignments and two quizzes, worth **10%** of your final mark, will be administered through an online program called *MasteringChemistry*. When you buy your textbook package, go to

www.masteringchem.com

and use the code provided with your textbook package to register. The course code to join our class is **FLYNNFALL2011**.

When an assignment is announced in class, 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). You will generally have one week to complete each assignment. The first assignment is due Friday, September 16 at midnight. More information about *MasteringChemistry* will be given in class.

The quizzes are timed, and so you will have 30 minutes to complete each quiz once you have started it. The quiz dates are Monday, October 3 and Monday, November 14. More information will be given in class.

Midterms:

There will be two in-class midterms (Thursday October 20th and Thursday November 24th, each worth **10 – 20 %** of your final mark. The content of each midterm will be mentioned in class. Midterms **are** cumulative. A formula sheet and periodic table will be provided for all midterms and for the final exam.

Final Exam:

Final exam dates and locations will be posted later in the term. Your final exam *will be cumulative* and will be worth **20 – 40 %** of your final mark. A formula sheet and periodic table will be provided for the final exam.

Academic Integrity:

If you are caught cheating or allowing someone else to copy your work during a midterm or exam, you will be removed from the examination room and reported to the faculty. Penalties range from a zero for the work to failure of the course to expulsion from the University. Don't risk it – your whole future could be affected! Keep your paper covered so others cannot copy your work, otherwise you may be accused of cheating by allowing them to copy!

STUDY TIPS AND RESOURCES

University level material is more advanced than high school, and is presented at a much faster pace. Developing good study habits right from the start can help you a great deal down the road.



Manage your time well:

As a general rule, spend at least **2 hours** on studying/homework (with the T.V. and facebook off! Yes, phones off too!) for every **1 hour** of lecture.

Stay on top of the material:

Material presented in each lecture will build upon the material previously presented. Stay on top of it to save yourself a great deal of time, work, and confusion in the long run. Don't put it off studying until the night before a midterm or exam!

How to study:

Do problems! Then do more problems! If this is all review to you, still do problems! Do NOT focus on memorization – you will be given all of the relevant data and equations anyway! Instead, be sure you *understand* the chemistry concepts behind the problems.

Use the available learning resources:

Attend lectures and DGDs, complete all assignments, complete additional suggested problems, and use study tools available in the Faculty. For further help, contact the chemistry office (562-5800 ext. 5728) to ask for names of tutors.

Budget your time appropriately!

Know how much each assignment, test, lab report, etc. is worth and budget your time accordingly. Studying for a test that is 10% of your course mark should take priority over an assignment that is worth only 1% of your course mark.

SERVICES PROVIDED BY UNIVERSITY OF OTTAWA

Student Academic Success Services: University Centre Room 312

<http://web.sass.uottawa.ca/welcome.php>

613-562-5806

sass@uottawa.ca

Student Academic Success Services provides a variety of free services.

Academic Writing Help Centre (AWHC): 110 University St.

<http://web.sass.uottawa.ca/classroom/awhc/>

Provides assistance with writing assignments (e.g. lab reports). Help you get started organizing your ideas and information, review drafts, offer assistance with organization, style, and grammar.

Access Services: University Centre Room 339

<http://web.sass.uottawa.ca/classroom/access/>

613-562-5976

adapt@uottawa.ca

Provides special support, testing accommodations, and adaptive technologies for students with physical, medical, psychological, or learning disabilities.

Your Science Buddies: 30 Marie Curie, room 075

This service is for 1st year science students who wish to meet older and experienced students. Begins towards the end of September, 9 am to 4 pm, Tuesday to Thursday.

Campus Foot Patrol: University Centre, Room 08A

613-562-5800 ext. 7433

http://www.uottawa.ca/services/protect/raccompagnement_e.html

Don't walk alone at night! Contact foot patrol for an escort.

Counseling and Coaching Service: 100 Marie Curie, 4th floor

<http://web.sass.uottawa.ca/personal/personal.php>

613-562-5200

Provides personal assistance during difficult life events and transitions.

International Students: 538 King Edward

International office: <http://www.uottawa.ca/international/office.html>

International advisor: 562-5820; isa-cee@uottawa.ca

International house: 562-5800 ext 4405; inhouse@uottawa.ca; www.inhouse.sfuoc.ca

A place to get acquainted with the international community of the University and somewhere to go if you have any questions or concerns.