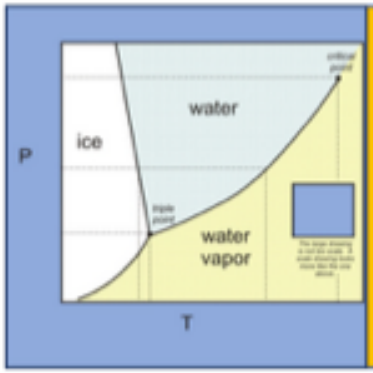
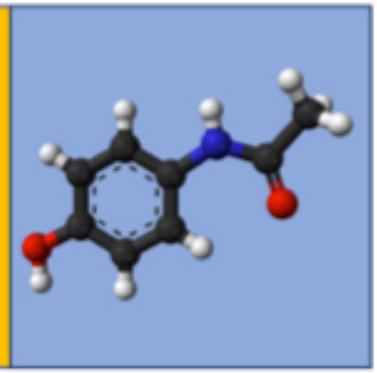


CHEMISTRY 123

Physical and Organic Chemistry



Welcome to Chem 123!
(section 201)

Happy New Year!

HAPPY NEW YEAR

Chemistry 123

Introduction to Physical and Organic Chemistry

Course goal:

Understand

(*really understand*)

thermodynamics as well as organic structure and reactivity

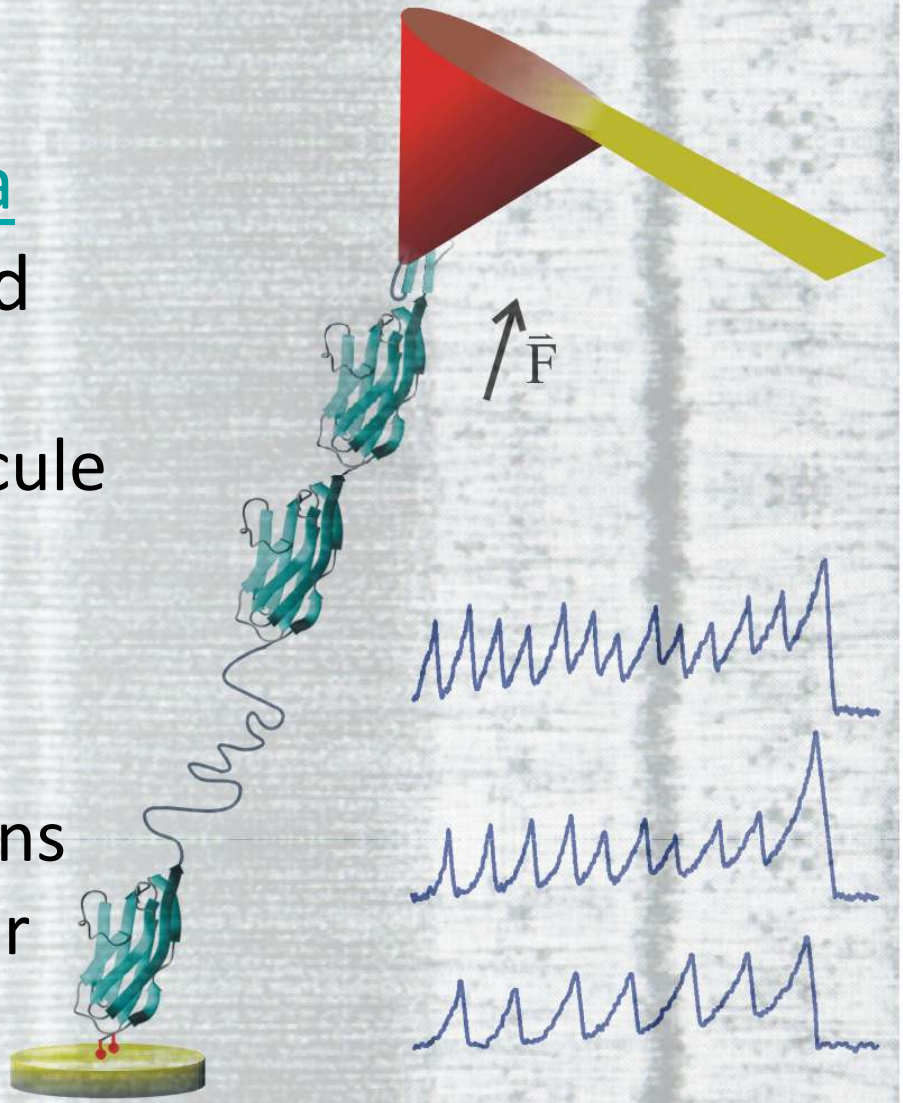
First six weeks: Physical chemistry

Second six weeks: Organic chemistry

About Instructors

Hongbin Li
Chemistry/Physics A247
Email: Hongbin@chem.ubc.ca
Office hours: To be announced

Research interests: single molecule biophysical chemistry. I am particularly interested in how proteins fold and how the mechanical properties of proteins are determined at the molecular level. My main research tool is atomic force microscopy.



About Instructors

Gregory Dake
Chem/Phys A341
Email: gdake@chem.ubc.ca

Research interests: Rearrangement Reactions;
Terpene Synthesis; Metal-Catalyzed Annulations

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Gregory Dake
Chem/Phys A341
Email: gdake@chem.ubc.ca

Research interests: Rearrangement Reactions;
Terpene Synthesis; Metal-Catalyzed Annulations

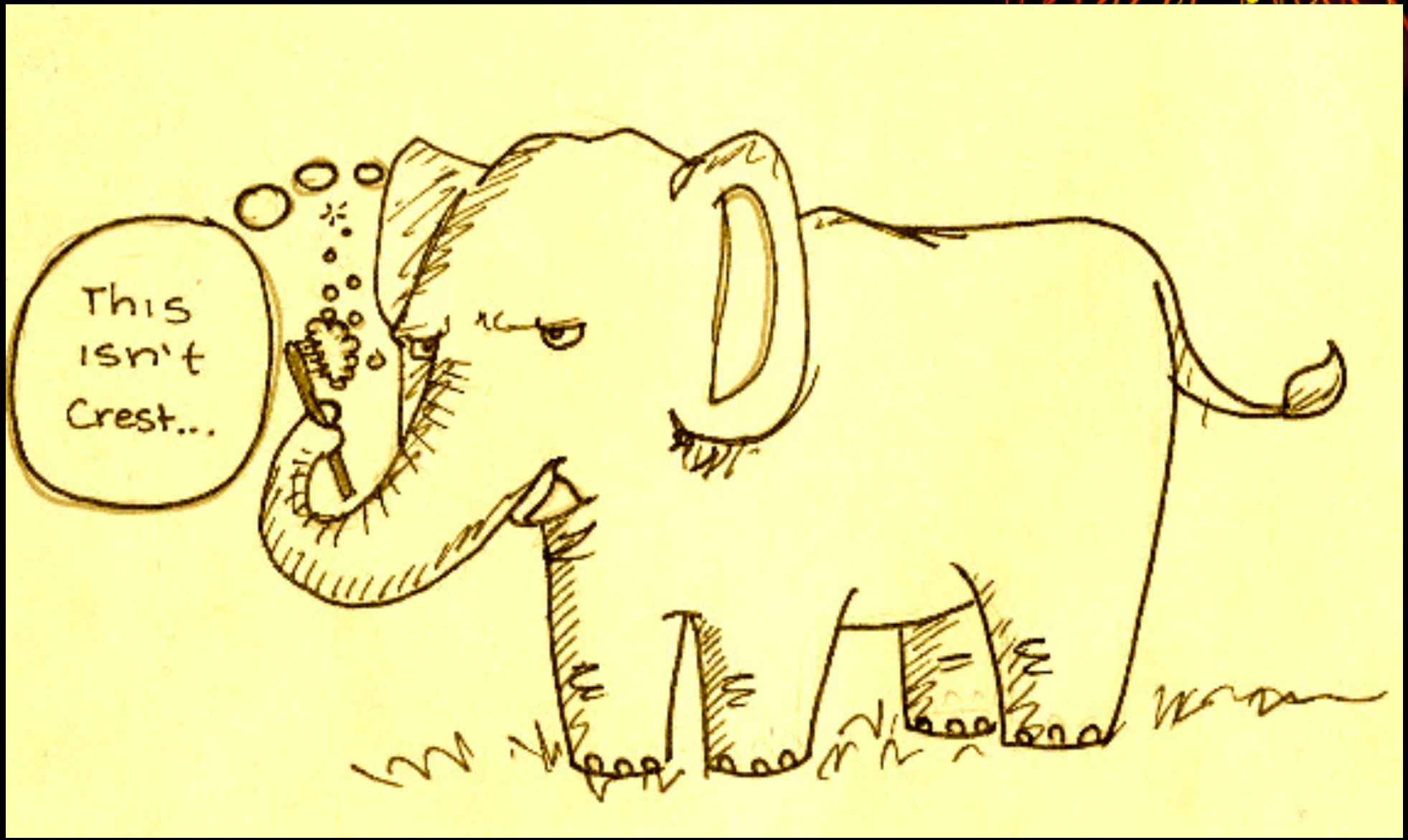
About Instructors

Dr. Angela Crane
Office B356
Email: acrane@chem.ubc.ca

Chem123 demonstrator and coordinator

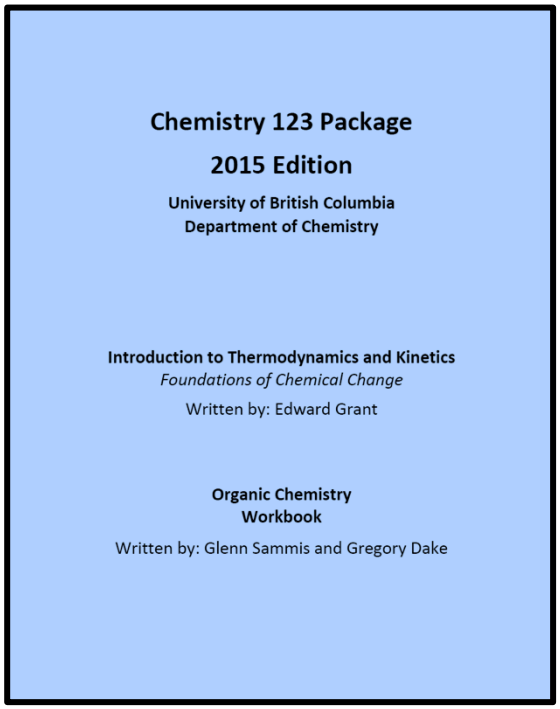
In charge of general course problems (connect fails, doctors notes, course-wide materials etc)

Elephant toothpaste



Chemistry 123

Required



2015 Chemistry 123 Custom Course Package
Includes:

- *Introduction to Thermodynamics and Kinetics*
- *Organic Chemistry Workbook*

The only calculator permitted for use on Chem 123 exams is the Sharp-EL-510RB

Where to buy the 2015 Chem 123 Course Package?

The Chem 123 Course Package contains 2 texts:

- Introduction to Thermodynamics and Kinetics
- Organic Chemistry Workbook

These texts have ***significantly*** changed since previous years and contain more (and different) information than previous editions.
Please ensure that you have the 2015 edition ***only***.

The Chem 123 Course Package can be purchased from the Chemistry Graduate Student Society (CGSS) ***during the first two weeks of class only***.

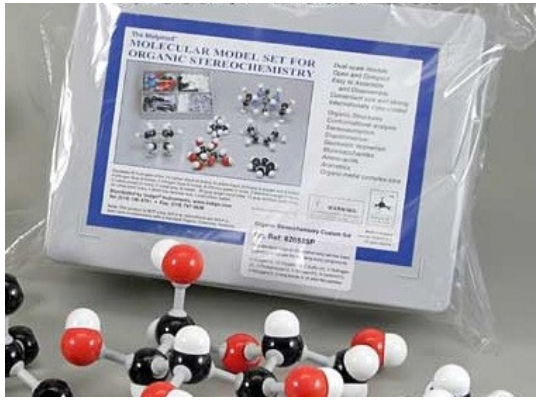
Selling will take place in the Chemistry Building, room B150 and B250 during the following times:

Monday, Jan 5th to Friday, Jan 9th, 2015 – 5:30pm-7pm
Monday, Jan 12th to Friday Jan 16th, 2015 – 5:30pm-7pm

The cost of the package is $40. The CGSS will accept payments of cash and credit card. Note that credit payments will be subject to a card surcharge of $1.50.

Chemistry 123

Recommended



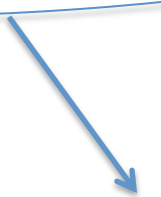
We strongly recommend a model kit for the organic portion.
You may use it during exams.

2014W2-CHEM123-201-Physical and Organic Chemistry

UBC Instructor: Angela Crane; Gregory Richard Dake; Hongbin Li;

2014W2-CHEM123-All Sections-Physical and Organic Chemistry

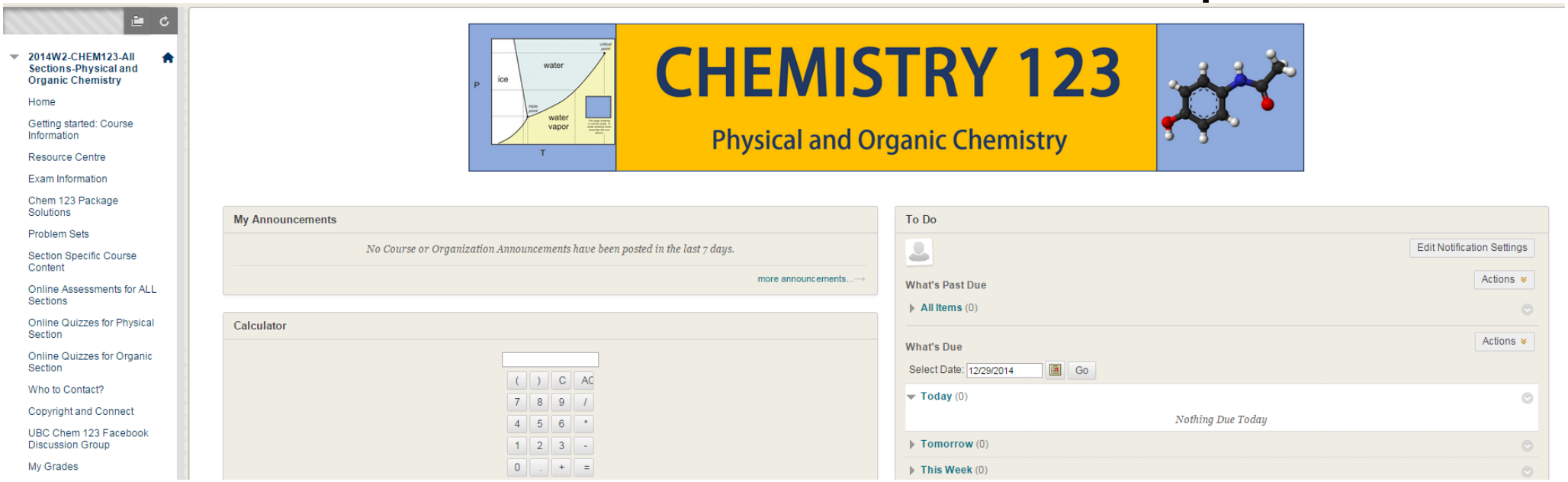
UBC Instructor: Gordon Bates; Angela Crane; Gregory Richard Dake; Kayli Johnson; Priya Anka Lekhi; Hongbin Li; Katherine Ryan; Glenn Sammis; Laurel Schafer;



Connect Site for all sections

Chemistry 123

Connect Site for the Lecture Component



All important information will be posted on the [Chem123-All Sections Connect Site](#) including:

- Course Information
- Resource Centre Hours and Schedule
- Problem Sets and solutions
- Solutions to Chem123 Course Package
- Exam Information
- Online Quizzes/Assessments
- Who to contact with course questions
- Link to UBC Chem Facebook Discussion Group

Chemistry 123

Problem Sets

- The physical chemistry text and the organic chemistry workbook have lots of questions for you to practice and test your conceptual understanding.

- The course will also provide problem sets and detailed solutions, as PDF documents on the Connect site.

- We will not mark problem sets as part of your final grade. But they are important. Use them to gain understanding, and learn what you don't know. Work the problems first before you check the solutions.

- BEST WAY to study and test yourself.

First-year Undergraduate Chemistry Resource Centre
Room B357 (above B250)

Opens January 19th, 2015!

The TA schedule will be posted on the door of the resource room and on Connect.

Grading Scheme

Review Online Assessments (2)	4%	Lecture
Section-specific Activities	6%	
Common Midterm Exam	20 %	
Common Final Exam	50%	
Laboratory	20 %	
TOTAL	**100%**	Laboratory

Faculty of Science Regulation: *To pass the course, you must pass both the **lecture** and **laboratory** parts of Chemistry 123 independently*

Chemistry 123

Review Online Assessments

Worth 2% each of Final Grade

- Two on-line assessments:
  - Acid/Base Chemistry; (Physical Section)
  - Organic Nomenclature; (Organic Section)

- Both on-line assessments are required for all sections of Chem 123 and can be accessed through the Chem 123 Connect site

Chemistry 123

Acid/Base Chemistry Online Review Assessment

Worth 2% of Final Grade

- Two "Rounds"
  - Round 1:
    - **Opens Thursday January 8th and closes Thursday January 22nd at 11:59pm**
    - Unlimited Time
    - Unlimited Attempts
    - Worth 0.5% (You must achieve at least 70% on round 1 to get any credit)
    - Do NOT wait until the last minute to attempt the assessment!
  - Round 2:
    - **Opens Thursday January 23rd at 9am and is *due* Wednesday, February 4th at 11:59pm**
    - Limited time (~1.5 hour)
    - 2 attempts
    - Worth 1.5%

Chemistry 123

Midterm Exam

Worth 20% of Final Grade

Wednesday, February 11, 6:30-7:30 pm

Please make every effort to resolve conflicts on your own.
If you have an unresolvable conflict you must email

chem123midterm@chem.ubc.ca

by Wednesday, January 28th @ 11:59 pm.

Details of your conflict must be provided in your email.

All UBC Internal conflicts will be checked.

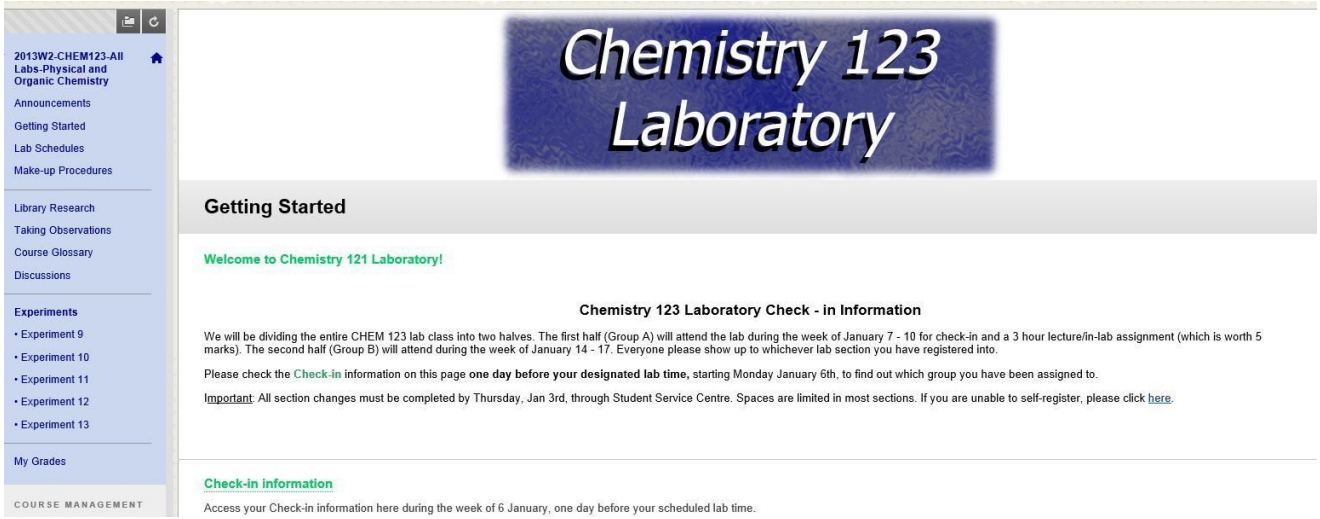
• • • • • CHEM 123 Labs • • • • •

Lab Check-In is the week of **Jan 5th** for 'Group A' and the week of **Jan 12th** for 'Group B'. Please come to your assigned lab section that week.

Bring your Lab Manual with you. New students can purchase the 2013/14 lab manual at the Bookstore. The check-in will take 3 hours and your attendance is mandatory.

Please check the Chem 123 **Laboratory** *Connect* on Monday, January 5th to find out which Group you are in and where to go for Lab Check-In. This information will be updated daily for the next day lab.

All students must view the on-line Lab Orientation slide show and the Safety video before coming to the lab for Check-In. The presentations are located on the Laboratory *Connect* site.



Bring your **lab manual, safety glasses and lab coats** to your first lab session.

Section-Specific Activities

Physical Section (1.5 %)

There will be 2 online quizzes for the Physical section of the course. The dates for these quizzes are:

- Quiz #1 opens Friday, January 23 at 9am and closes Monday, January 26 at 11:59pm

- Quiz #2 opens Friday, February 6 at 9am and closes Monday, February 9 at 11:59pm

Our Physical Section-Specific Activities

Physical Section (1.5 %)

- Clicker questions during the lecture

- Quiz: five in total, time will be announced in due time.

Clicker required to enter answers

- Register Clicker by Friday January 9th on section 201 Connect Site

Our Physical Section-Specific Activities

Physical Section (1.5 %)

- Around 12 lectures with Clickers: will count only 8 out of 12
- If have Clickers by next lecture: BONUS MARKS!
- If no Clicker on quiz day, can hand in paper copy.
- Will count best 4/5 quizzes.

How to be successful in Chem123?
A few words…

- Do the reading assignment: engagement is so much easier if you know what we are discussing
- Attend lectures and take notes
- Do problem sets by yourself
- Form study groups
- Seek help in Chem123 Resource Center or go to my office during my office hours!!!