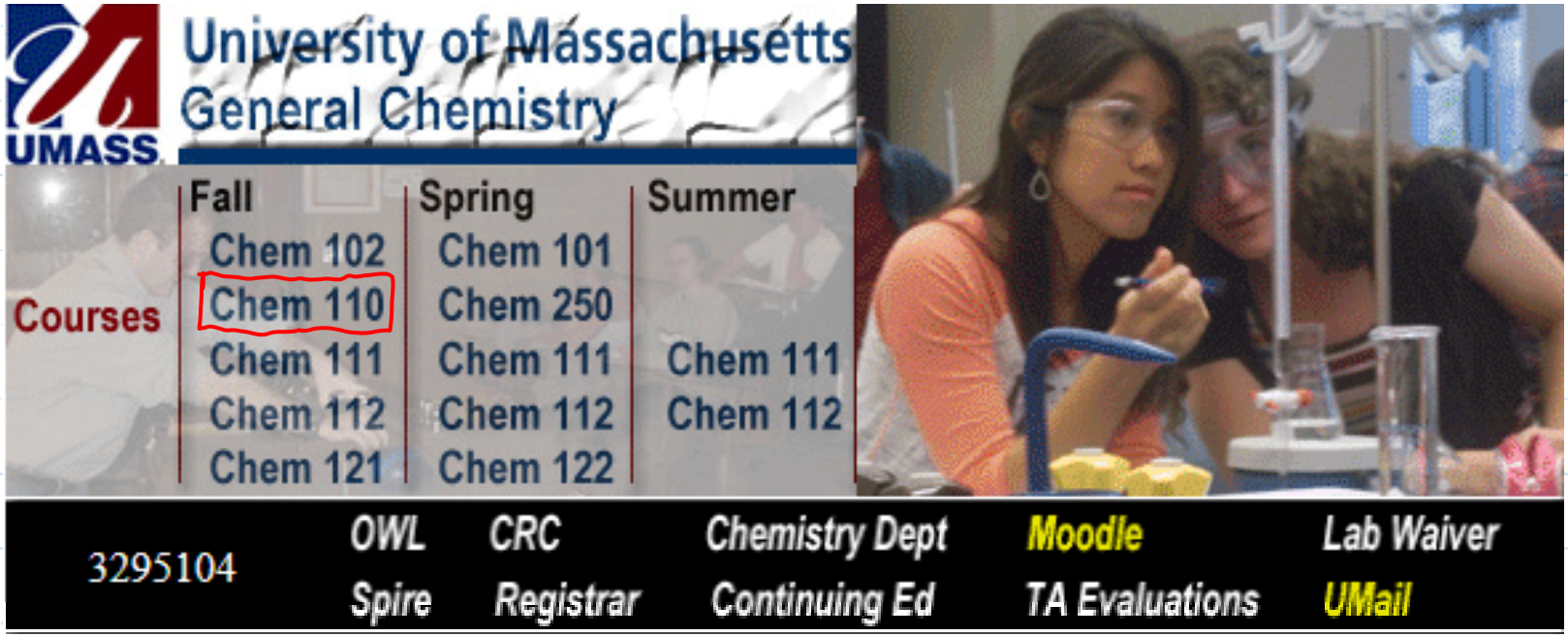
Announcements – Lecture I – Tuesday, Sep 2nd



www.chem.umass.edu/genchem ... all lower case

Lecture
General
- Genchem
- Owl
- Course Home

Laboratory
General
- Lab Policy
- Lab Waiver?
- Make-up Labs?
- Lab Safety

Lab Schedule
- Chem 110 - LL

TA Information
- Saturday LL

Experiments
E-1 E-2 E-3
E-4 E-5 E-6

Prelab Quiz
E-1 E-2 E-3
E-4 E-5 E-6

Video
- Weighing
- Using a buret
- Titrating

Chem 110 Fall 2014

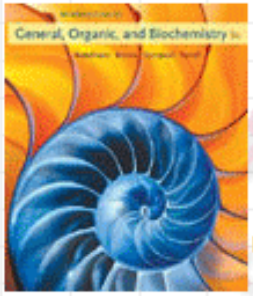
Instructors:

Tom Whelan
ISB 241E, 545-6092
whelan@chem
Office Hours → Starting on Sept 10th
Mon: 2:45-4:45 ISB 162
Wed: 2:45-4:45 ISB 162 Where is ISB 162?

Tba
Xxx@
CRC: TBA

Tba
Xxx@
CRC: TBA

Required Materials: ... Strongly recommended



INTRODUCTION TO
General, Organic, and Biochemistry
Ninth EDITION
Bettelheim · Brown · Campbell · Farrell

1. Class Meets: TuTh 1:00-2:15,
2. Class Location: ISB 135
3. Exam Dates: Sep 30, Nov 4, Dec 2, TBA
4. Campus Map
5. iClicker 2
6. Scientific Calculator ... See class web site
   (Easy to use and inexpensive)

General Chemistry Labs: Ground floor of the ISB

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Syllabus Summary:

1. **General:**
   This course satisfies the physical science General Education requirement (PS). The aim of GenEd is to help students develop mature, broad, transferable skill sets that are not limited to one particular discipline or profession. The PS GenEd courses grow analytical reasoning, critical thinking, complex problem solving, mathematical acumen, logical argument, and other life skills. In this class we work on these skills using the language and concepts of chemistry, but the skills are transferable to any field.
2. **Grading**
   3 In Class Exams + Final Exam 70%
   (Highest Exam Score of All Exams 20%; Lowest 14%; Other 2, 18% each) ***
   PRS + Owl 10%
   Laboratory 20%
3. **Exam Dates:**

Exam I	Tuesday	September	30	ISB 135	1:00-2:15
Exam II	Tuesday	November	4	ISB 135	1:00-2:15
Exam III	Tuesday	December	2	ISB 135	1:00-2:15
Final	TBA	December	?	TBA	TBA

   In class exams
4. **Past Exams**

2014	Exam I - Blank	Exam II - Blank	Exam III - Blank
	Exam I - Key	Exam II - Key	Exam III - Key
2013	Exam I - Blank	Exam II - Blank	Exam III - Blank
	Exam I - Key	Exam II - Key	Exam III - Key
2012	Exam I - Blank	Exam II - Blank	Exam III - Blank
	Exam I - Key	Exam II - Key	Exam III - Key
2011	Exam I - Blank	Exam II - Blank	Exam III - Blank
	Exam I - Key	Exam II - Key	Exam III - Key

5. **Exam Policies:**
   You must have a passing exam average in order to pass the course -- Failing two of the exams constitutes a failing exam average.
6. **Lab Policies:**
   You must complete all of the laboratory experiments to pass the course. *
7. **Academic Honesty:**
   You will abide by the academic honesty policy of the campus. I expect you to do your own work on exams and labs. You mush flush all calculator memories of any chemistry information before coming to an exam. You MAY NOT bring any additional materials to exams other than a pencil, calculator, and your brain. I take honesty very seriously.
8. **Grade Cutoff's:**
   >90 A <55 F

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Thursday Sep 04

Lecture 2
Slides

posted after each class.

Lecture Material:
1.3 How do Scientists Report Numbers?
1.5 Factor-Label Method -- Dimensional Analysis -- Mathematics of Chemistry
3.5 How Do We Name Ionic Compounds -- A Brief Early Visit!
- Some Memorization

2.4 What Are Atoms Made Of

Homework:

Owl	1.3e	Homework - Significant Figures in a Number	09-09-14
	1.3f	Homework - Significant Figures in Calculations	09-09-14
	1.3g	Homework - Significant Figures and Errorless Numbers	09-09-14
	1.5e	Tutor - Metric System Prefixes	09-09-14
	1.5d	Tutor - Unit Conversions	09-09-14
	1.5h	Tutor - Unit Conversions by the Factor-Label Method	09-09-14
	1.5g	Homework - Metric Units: Unit Analysis	09-09-14
	3.5b	Simulation - Ionic Compounds	09-09-14
		iClicker Registration	09-09-14

Announcements:
1. PRS - iClicker for credit starts on Thursday, September 11
   Register your iClicker in Owl by Sept 09.
2. Lab - First Lab: Saturday, September 20, 1:00-4:00pm

site updated prior to and after each class

Tuesday Sep 02

Lecture 1
Slides

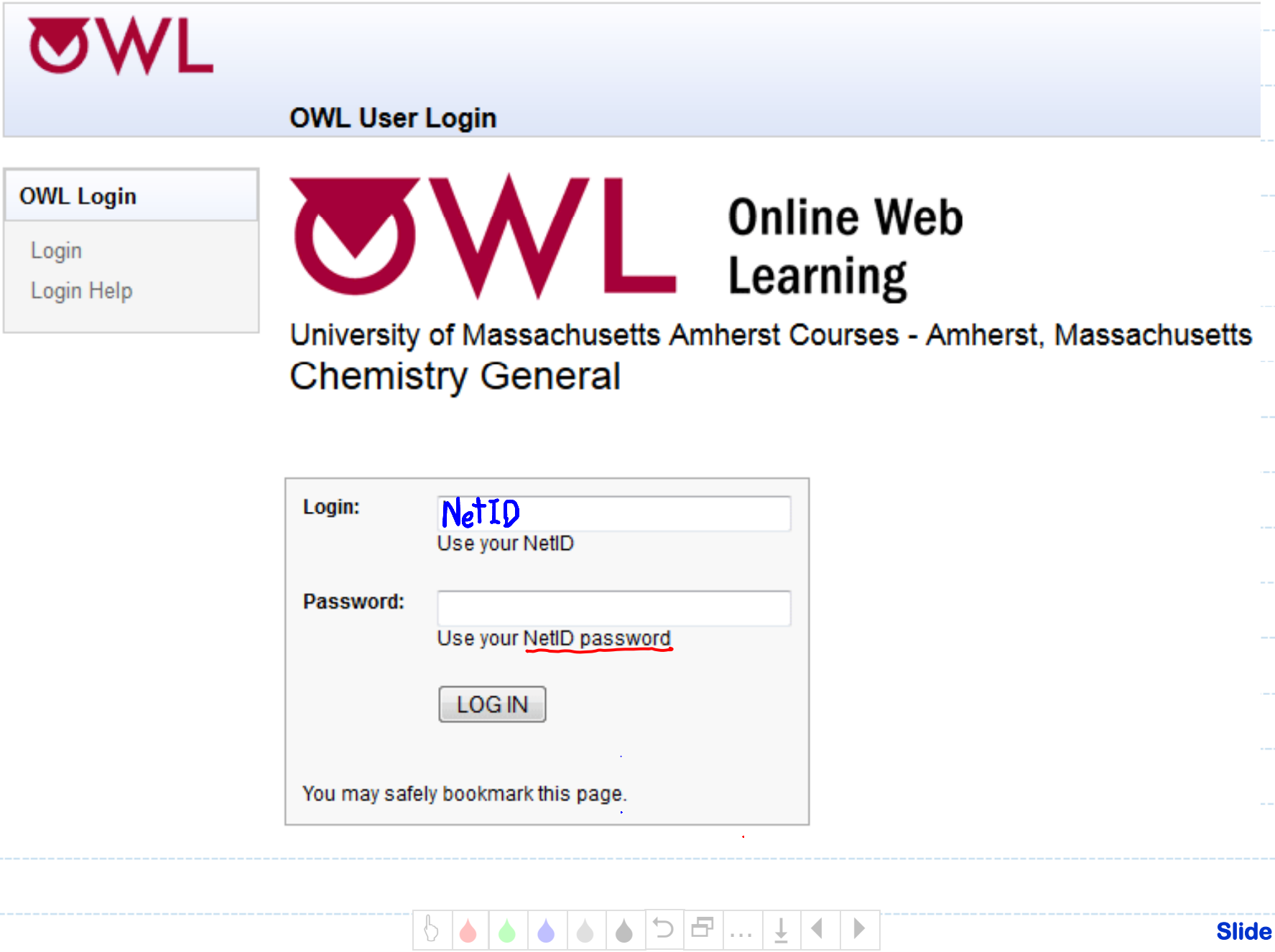
Lecture Material:
General Course Information
- What Materials Do I Need
- Exam Dates & Grading
- Computer Resource Center
- Lab -- What/Where/When/What I Need to Know/Materials etc
- Some Fun With Balloons!

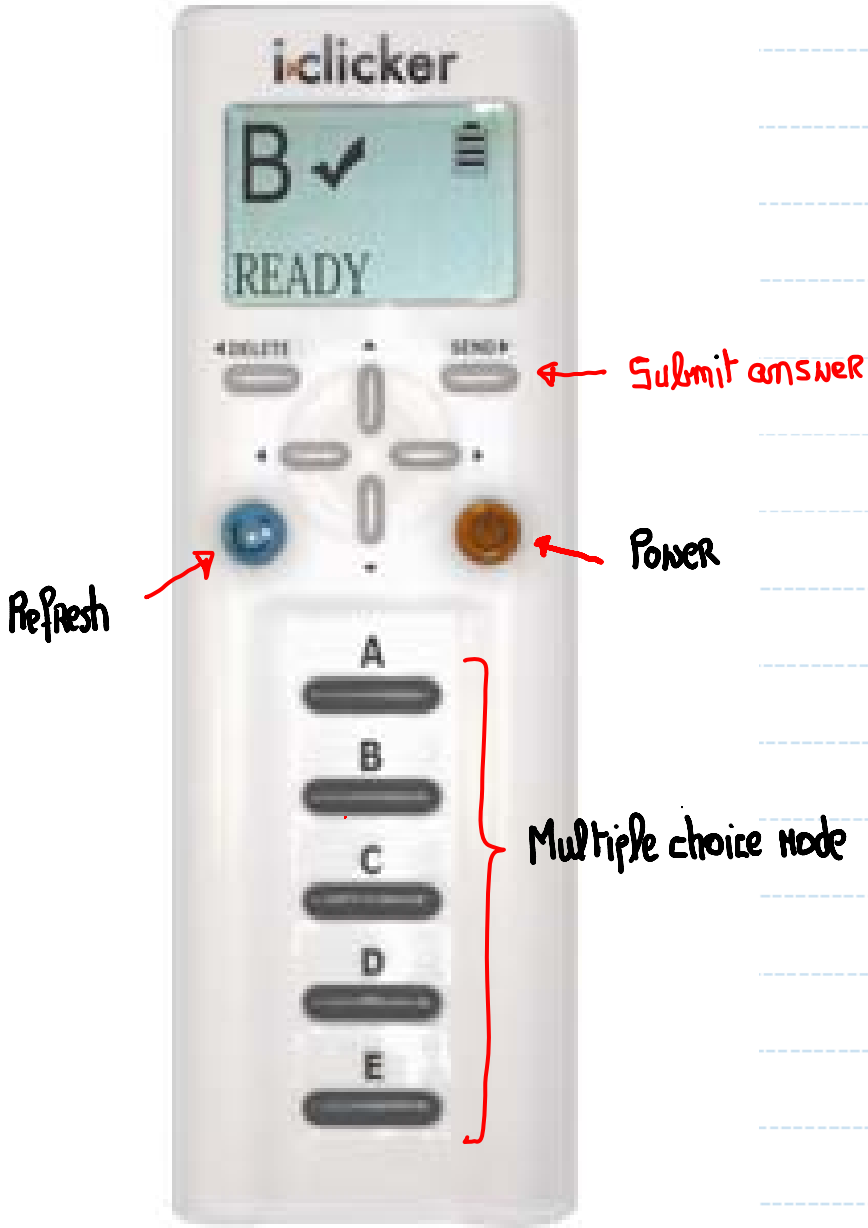
1.3 How do Scientists Report Numbers?

Textbook Reference

Homework:

Reading	Ch 1.2	What is the Scientific Method	
	Ch 1.3	How do Scientists Report Numbers	
	Ch 1.4	How do we Make Measurements	
Owl	I.1a	Navigation, Messages, and Browsers	09-05-14
	I.1b	Flash and eBook	09-05-14
	I.2a	Question Modes	09-05-14


OWL
OWL User Login
OWL Login
Login
Login Help
OWL
Online Web Learning
University of Massachusetts Amherst Courses - Amherst, Massachusetts
Chemistry General
Login:
NetID
Use your NetID
Password:
Use your NetID password
LOG IN
You may safely bookmark this page.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B
READY
Submit answer
Power
Refresh
A
B
C
D
E
Multiple choice mode

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} Read prior to first lab.

Lab Schedule
- Chem 110 - L01

TA Information
- Saturday L01

} TA information and room assignment

Experiments
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} Print prior to each lab ... Use the 'Print Page' button on the top right hand corner of the web page ... this launches a pdf version of the experiment which is the only version that contains the 'Data Sheet'.

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CHEM 110 LAB DATES:

SAT,	Sept	20	1:00-4:00 pm
SAT,	Oct	4	ISB 155/160 A-E
SAT,	Oct	11	
SAT,	Nov	1	
SAT,	Nov	15	
SAT,	Nov	22	

Grading:

Important Summary:

1. **In order to receive a grade in the course you must receive a laboratory grade. Fail the laboratory portion and you fail the entire course, regardless of how you do in lecture. In order to obtain a laboratory grade you must complete ALL the laboratories (see frequently asked question) and made a decent attempt at ALL the assigned laboratory OWLS**

2. **The laboratory grade constitutes 20% of the overall course grade.**

Grading within the Laboratory Program:

A final laboratory grade will be posted at the end of the semester before your final exam. This grade is based on the following

Prelab Quiz	25%
Laboratory Reports	45%
Laboratory OWL's	25%
TA Assessment	5%

* 4 of them, first one will appear after Exp 2. Other three after Exp 3, 4, 5.