

## Announcements – Lecture I – Tuesday, Sep 8<sup>th</sup>

1. **Class Web Site:** [www.chem.umass.edu/genchem](http://www.chem.umass.edu/genchem)
2. **iClicker for credit starts Thursday , September 17<sup>th</sup>**

*Register your iClicker in Owl (a home work assignment) by Tuesday, September 15<sup>th</sup>*

3. **First Lab – Saturday, September 26<sup>th</sup> ... 1-4pm ... ISB 155 /160 (A-E)**





# University of Massachusetts General Chemistry



Courses	Fall	Spring	Summer
	<b>Chem 110</b>		
	Chem 111	Chem 111	Chem 111
	Chem 112	Chem 112	Chem 112
	Chem 121	Chem 122	

**3351338**

OWL

Spire

CRC

Registrar

Chemistry Dept

Continuing Ed

Moodle

TA Evaluations

Lab Waiver

UMail

[www.chem.umass.edu/genchem](http://www.chem.umass.edu/genchem) ... all lower case



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# Chem 110

Instructors:



Tom Whelan  
ISB 241E, 545-6092

whelan@chem

Office Hours

Mon: 2:45-4:45 ISB 162

Wed: 2:45-4:45 ISB 162

Starting on Sept 14<sup>th</sup>

Where is ISB 162?

Tba

tba@umass

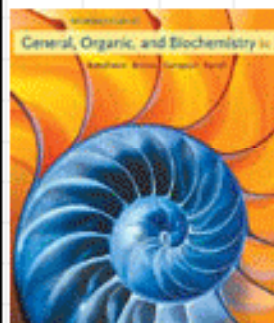
CRC:

Tba

tba@umass

CRC:

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: Oct 6, Nov 10, Dec 8, TBA
4. [Campus Map](#)
5. [iClicker 2](#)
6. [Scientific Calculator](#)  
(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	October	6	ISB 135	1:00-2:15
Exam II	Tuesday	November	10	ISB 135	1:00-2:15
Exam III	Tuesday	December	8	ISB 135	1:00-2:15
Final	TBA				

} In class exams

### 4. Past Exams

2015	Exam I - Blank	Exam II - Blank	Exam III - Blank
	Exam I - Key	Exam II - Key	Exam III - Key
2014	Exam I - <a href="#">Blank</a>	Exam II - <a href="#">Blank</a>	Exam III - <a href="#">Blank</a>
	Exam I - <a href="#">Key</a>	Exam II - <a href="#">Key</a>	Exam III - <a href="#">Key</a>
2013	Exam I - <a href="#">Blank</a>	Exam II - <a href="#">Blank</a>	Exam III - <a href="#">Blank</a>
	Exam I - <a href="#">Key</a>	Exam II - <a href="#">Key</a>	Exam III - <a href="#">Key</a>
2012	Exam I - <a href="#">Blank</a>	Exam II - <a href="#">Blank</a>	Exam III - <a href="#">Blank</a>
	Exam I - <a href="#">Key</a>	Exam II - <a href="#">Key</a>	Exam III - <a href="#">Key</a>

### 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 must 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  
The other grade cutoff's will be determined at the end of the semester. However if you want to be assured of a B you should be in the 80's and 70's for a C. Performance on the final will determine borderline grades.



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<b>Laboratory</b>
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Thursday  
Sep 10

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](#)

**Homework:**

Owl	1.3e Homework - Significant Figures in a Number	09-15-15
	1.3f Homework - Significant Figures in Calculations	09-15-15
	1.3g Homework - Significant Figures and Errorless Numbers	09-15-15
	1.5e Tutor - Metric System Prefixes	09-15-15
	1.5d Tutor - Unit Conversions	09-15-15
	1.5h Tutor - Unit Conversions by the Factor-Label Method	09-15-15
	1.5g Homework - Metric Units: Unit Analysis	09-15-15
	3.5b Simulation - Ionic Compounds	09-15-15
	iClicker Registration	09-15-15

**Announcements:**

1. PRS - iClicker for credit starts on Thursday, September 17  
Register your iClicker in Owl by September 15.

Site updated prior to  
and after each class.

Tuesday  
Sep 08

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:**

<b>Reading</b>	Ch 1.2 What is the Scientific Method	
	Ch 1.3 How do Scientists Report Numbers	
	Ch 1.4 How do we Make Measurements	
<b>Owl</b>	I.1a Navigation, Messages, and Browsers	09-11-15
	I.1b Flash and eBook	09-11-15
	I.2a Question Modes	09-11-15
	I.2b Question Types	09-11-15
	I.3a Chemical Formulas	09-11-15
	I.3b Scientific Notation	09-11-15
	I.3c Tables	09-11-15





## OWL User Login

### OWL Login

Login

Login Help



# Online Web Learning

University of Massachusetts Amherst Courses - Amherst, Massachusetts  
Chemistry General

Login:

Use your NetID

Password:

Use your NetID password

LOG IN

You may safely bookmark this page.





Refresh

Submit answer

POWER

Multiple choice mode





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## Chem 110 LAB DATES:

Sat, Sept 26

Sat, Oct 3

Sat, Oct 24

Sat, Oct 31

Sat, Nov 14

Sat, Dec 5

1:00-4:00pm

ISB 155/160 A-E

Read prior to  
the first lab.

TA information and room assignment.

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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## 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 3 will appear after experiments 3, 4, and 5.