

## **Announcements – Lecture I – Tuesday, Sep 6<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 15<sup>th</sup>**

*Register your iClicker in Owl (a home work assignment) by Tuesday, September 13<sup>th</sup>*

3. **First Lab – Saturday, September 24<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

CRC

Chemistry Dept

**Moodle**

Lab Waiver

Spire

Registrar

Continuing Ed

TA Evaluations

**UMail**

*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

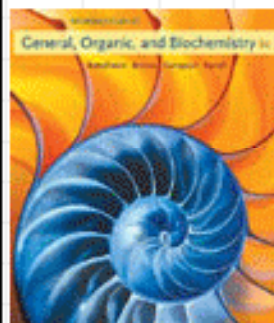
Starting on Sept 14<sup>th</sup>

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	Thursday	October	6	ISB 135	1:00-2:15
Exam II	Tuesday	November	8	ISB 135	1:00-2:15
Exam III	Thursday	December	8	ISB 135	1:00-2:15
Final					

} In class exams

### 4. Past Exams

2015	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>
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>

### 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 Cutoffs:

>90 A      <55 F



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Date	Daily Schedule ... Updated Sunday, September 04 :- 02:20 PM																											
Thursday Sep 08	<p><b>Lecture Material:</b></p> <p>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!            - <a href="#">Some Memorization</a></p> <p><b>Homework:</b></p> <table border="0"> <tr><td>Owl</td><td>1.3e Homework - Significant Figures in a Number</td><td>09-13-16</td></tr> <tr><td></td><td>1.3f Homework - Significant Figures in Calculations</td><td>09-13-16</td></tr> <tr><td></td><td>1.3g Homework - Significant Figures and Errorless Numbers</td><td>09-13-16</td></tr> <tr><td></td><td>1.5e Tutor - Metric System Prefixes</td><td>09-13-16</td></tr> <tr><td></td><td>1.5d Tutor - Unit Conversions</td><td>09-13-16</td></tr> <tr><td></td><td>1.5h Tutor - Unit Conversions by the Factor-Label Method</td><td>09-13-16</td></tr> <tr><td></td><td>1.5g Homework - Metric Units: Unit Analysis</td><td>09-13-16</td></tr> <tr><td></td><td>3.5b Simulation - Ionic Compounds</td><td>09-13-16</td></tr> <tr><td></td><td>iClicker Registration</td><td>09-13-16</td></tr> </table> <p><b>Announcements:</b></p>	Owl	1.3e Homework - Significant Figures in a Number	09-13-16		1.3f Homework - Significant Figures in Calculations	09-13-16		1.3g Homework - Significant Figures and Errorless Numbers	09-13-16		1.5e Tutor - Metric System Prefixes	09-13-16		1.5d Tutor - Unit Conversions	09-13-16		1.5h Tutor - Unit Conversions by the Factor-Label Method	09-13-16		1.5g Homework - Metric Units: Unit Analysis	09-13-16		3.5b Simulation - Ionic Compounds	09-13-16		iClicker Registration	09-13-16
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Tuesday Sep 06	<p><b>Lecture Material:</b></p> <p>General Course Information</p> <ul style="list-style-type: none"> <li>- What Materials Do I Need</li> <li>- Exam Dates &amp; Grading</li> <li>- Computer Resource Center</li> <li>- Lab -- What/Where/When/What I Need to Know/Materials etc</li> <li>- Some Fun With Balloons!</li> </ul> <p>1.3 How do Scientists Report Numbers?  <i>→ Textbook reference</i></p> <p><b>Homework:</b></p> <p><b>Reading</b></p> <table border="0"> <tr><td></td><td>Ch 1.2 What is the Scientific Method</td><td></td></tr> <tr><td></td><td>Ch 1.3 How do Scientists Report Numbers</td><td></td></tr> <tr><td></td><td>Ch 1.4 How do we Make Measurements</td><td></td></tr> </table> <p><b>Owl</b></p> <table border="0"> <tr><td></td><td>1.1a Navigation, Messages, and Browsers</td><td>09-09-16</td></tr> <tr><td></td><td>1.1b Flash and eBook</td><td>09-09-16</td></tr> <tr><td></td><td>1.2a Question Modes</td><td>09-09-16</td></tr> <tr><td></td><td>1.2b Question Types</td><td>09-09-16</td></tr> </table>		Ch 1.2 What is the Scientific Method			Ch 1.3 How do Scientists Report Numbers			Ch 1.4 How do we Make Measurements			1.1a Navigation, Messages, and Browsers	09-09-16		1.1b Flash and eBook	09-09-16		1.2a Question Modes	09-09-16		1.2b Question Types	09-09-16						
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Slides  
 posted after  
 each class

Site updated prior to  
 and after each class.





## 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 24

Sat: Oct 1

Sat: Oct 22 1:00-4:00pm

Sat: Nov 5 155/160 A-E

Sat: Dec 3

Sat: Dec 10

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.