# Chemistry 102 Fall 2015

# 12 noon

# http://chemmac1.usc.edu/102/

Study of basic chemistry and its impact on the modern world. Topics include: stoichiometry, nomenclature, gases, solutions, and others. Not available for major credit.

## **Professor:**

Dr. Rebecca M. Broyer	$\underline{rbroyer@usc.edu} \qquad (213) 740-0620$
Office Hours: SGM 305	Monday + Wednesday 11:00am-12:00pm
Teaching Assistants:	
Chayan Dutta Dhritiman Bhattacharyya	cdutta@usc.edu dhritimb@usc.edu
Office Hours: TBA	
SI Leader: Einav Nachman	enachman@usc.edu
Lectures:	

12 noon Monday, Wednesday and Friday GFS 118

#### **Discussion:**

3:30 - 4:50 pm Thursday SGM 601

#### **Textbooks:**

Required: *Introductory Chemistry* (5th edition) by Peters and Carolice ISBN-13: 978-1133113126 ISBN-10: 1133113125

Recommended: Calculations *in Chemistry* by Dahm, can be found with the Chem 105a material in the bookstore.

#### **Calculator:**

To have a level playing field, Chem 105 requires every student use the exact same calculator on exams, the **Casio FX-260 Solar**, which is around \$10. You will be required to use the same calculator in this course to become more comfortable with its use.

#### Grading:

Homework	14 @ 10 points 140	) points
In-Class Worksheets	30 @ 10 points 300	) points
Online Assignments	10 @ 10 points 100	) points
One-hour Exams	3 @ 100 points 300	) points
Final Project	50 points	50 points
Final Exam	200 points	200 points
Total:	_	1090 points

# Week 7 Grade:

We do our best to inform you of your progress in the course by assigning an approximate letter grade at the end of the seventh week. Note: this advisory letter grade you receive at week 7 is no guarantee of you final grade. Final grades are assigned using guidelines from previous semesters, but there is no strict grading curve.

## Schedule:

The class schedule (lectures, exams, and other important dates) can be easily found online at the class website.

#### Exams:

There will be three 1-hour exams. **There are no makeup exams. You cannot take exams at any other time.** The material covered on each exam will always be announced in lectures prior to that exam. Bring an ID, Casio FX-260 calculator and pens with you. All electronic devices such as cell phones are prohibited and cannot be used for any purpose during the exam, including keeping time. No one will be allowed to enter the exam room late or to leave early. Graded exams will be scanned and available for viewing/printing from the class website.

#### Final Exam:

A comprehensive two-hour final exam will be administered on Friday, December 11h from 11 am to 1 pm. This is the only time during which the final exam may be taken; there are no make-ups. Absences on the final exam do not automatically qualify for a grade of incomplete. If you cannot take the final during this designated time, you should **<u>not</u>** take this course.

#### Absences:

No makeup exams will be given. Absences will be excused based on official University policy (verifiable illness or necessity). **Contact Dr. Broyer on the morning of (or day before) the absence** in case of illness. In the case of non-illness necessity, bring written verification to Dr. Broyer *prior* to the absence. You cannot miss more than one exam. All unexcused absences will result in a score of zero for that exam.

#### Homework:

There will be a weekly homework assignment that will be distributed on Friday (or earlier) and due the following Monday in class. There will be 14 in all, each is worth 10 points.

#### **In-Class Worksheets:**

There will be worksheets that will be completed in some lectures and during the discussion sections. They will be distributed at the beginning of the lecture or discussion section and collected in the same period. There will be 30 in all, each is worth 10 points.

#### **Online Assignments:**

Throughout the semester some material will be introduced through videos and tutorials posted online. There will be short quizzes that will test the understanding of the material. There will be 10 in all, each will be worth 10 points.

#### **Final Project:**

A group project will be assigned in which you will explore an aspect of chemistry. Details will be provided later in the semester.

#### **Students with Disabilities:**

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved

accommodations can be obtained from DSP. Please be sure the letter is delivered to Dr. Broyer as early in the semester as possible.

#### Academic Integrity:

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. SCampus, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: http://www.usc.edu/scampus/Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The review process can be found at: http://www.usc.edu/student-affairs/SJACS/

#### Important Dates to Remember (You can find all dates in the online calendar)

August 24 (M)	First Day of Classes
August 27 (Th)	Chemistry Assessment Test
September 7 (M)	Labor Day (No Classes)
September 11 (F)	Last Day to drop without a "W"
September 24 (Th)	First Hour Exam
October 15 (Th)	Second Hour Exam
November 12 (Th)	Third Hour Exam
November 13 (F)	Last Day to drop with a "W"
November 25-28	Thanksgiving Holiday (No Classes)
December 4 (F)	Last Day of Classes
December 11 (F)	Final Exam 11 am - 1 pm

August 2014:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
23	24	25	26	27	28	29
	Syllabus and Introduction	L	Manipulating Equations	Assessment Test	Functions	

September 2014:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30	31	1	2	3	4	5
	Fractions		Exponents and Logarithms	5	Word Problems	
6	7 Labor Day	8	9 Word	10 Problem	11 Word	12
	No Classes		Problems	Solving	Problems	
13	14	15	16	17	18	19
	Chapter 2		Chapter 2	Problem Solving	Chapter 3	
20	21	22	23	24	25	26
	Chapter 3		Chapter 4	Exam 1: Math and Chapter 2	Chapter 4	
27	28	29	30			
	Chapter 4		Chapter 5			

October 2014:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			30	1	2	3
			Chapter 5	Problem Solving	Chapter 5	
4	5	6	7	8	9	10
	Chapter 6		Chapter 6	Problem Solving	Chapter 7	
11	12	13	14	15	16	17
	Chapter 7		Chapter 7	Exam 2: Chapters 4 - 6	Chapter 8	
18	19	20	21	22	23	24
	Chapter 9 and 19		Chapter 9 and 19	Problem Solving	Chapter 9 and 19	
25	26	27	28	29	30	31
	Chapter 10		Chapter 10	Problem Solving	Chapter 10	

November 2014:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						31
1	2	3	4	5	6	7
	Chapter 10		Chapter 14	Problem Solving	Chapter 14	
8	9 Chapter 14	10	11 Chapter 14	12 Exam 3: Chapters 7 – 10, 14 and 19	13 Chapter 16	14
15	16 Chapter 16	17	18 Chapter 16	19 Problem Solving	20 Chapter 17	21
22	23 Chapter 17	24	25 No Classes	26 Thanksgiving	27 No Classes	28
29	30 Presentations					

# December 2014:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	30	1	2	3	4	5
	Presentations			Presentations	Presentations	
6	7	8	9	10	11	12
					Final Exam: 11 am – 1 pm	