

## CHEM 200 & 202 Syllabus

### Contact Information:

**Email (for all needs):** chem200@mail.sdsu.edu

#### Instructors:

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#### Lab Coordinator:

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**All Instructor and TA office hours will be held in the CHEM 200/202 HELP ROOM located in GMCS-212.**

Office hour schedules will be posted in GMCS-212 and online.

The CHEM 200/202 Help Room located in GMCS-212 is for all enrolled students seeking assistance with the course material. The Help Room will be staffed by the teaching assistants and the instructors (during their office hours) and will be open approximately 20 hours per week.

### **Textbook:**

*Chemistry: The Molecular Nature of Matter and Change, 7<sup>th</sup> Ed.*, Silberberg  
Combined with: *Connect Plus* - for online textbook access and online homework.

### **Online Resources:**

- Blackboard will be used extensively for course communications and grade dissemination.
- Connect will be used extensively for online homework, quizzes, pre-lab assignments, and practice problems. Links to lab specific Connect sections will be provided through Blackboard.
- Dropbox will be used extensively for distributing course materials (e.g. lab handouts, lecture slides, sample exams...). The URL for the specific Dropbox page will be provided through Blackboard.

## Grading

CHEM 200 & CHEM 202 grades will be calculated on the same scale. Your grade will be determined by the number of points you earn on the following assessments:

Item	Quantity	Value (each)	Total
Mid-Semester Exams <sup>°</sup>	3	150	450
Final Exam <sup>°</sup>	1	250	250
Quizzes*	4	20	80
Pre-lab Assignments*	11	5	55
Lab Reports	Best 10 of 11	15	150
Lab Practical Exam	1	40	40
Homework**	13	10	130
Review Assignment*	1	30	30
Safety Quiz	1	15	15
<b>Total</b>			<b>1200</b>

\* Quizzes, pre-lab assignments, homework, and the review assignment will all be administered through the **Connect** online homework system.

\*\* Homework policies:

- There will be homework from each chapter covered in the text, 13 in total.
- Some chapters may have the homework problems split into two parts, due to the length of time taken to cover the material (i.e. chapter 5 & 8). Those two parts will be combined to be the total assignment.
- Full points can be obtained for each chapter's homework in one of two ways:
  - Completing the LearnSmart module for that chapter.
  - Scoring above 85% on the homework problems for that chapter.
- In the case that the LearnSmart is not completed fully, or that the score for the homework problems is less than 85%, the points allocated will be scaled proportionally. For example:
  - LearnSmart 75% complete = 7.5 points
  - Homework score 74% =  $(74\% \div 85\%) \times 10 = 8.7$  points
- If both the LearnSmart and the homework problems are done for a chapter, the component which yields the highest grade will be counted towards your grade. Such as in the example above, the student would get 8.7 points for the homework, and the LearnSmart results would be ignored.
- It is in your best interest to complete all parts of the homework to ensure that you are fully prepared for the exams.

<sup>°</sup> The mid-semester and final exams will have a combined total of 700 points. *Students who show improvements in the exam grades over the course of the semester will have the weighting of the exams altered to benefit their improved performance. A complete explanation of the re-*

weighting will not be provided here (for purposes of space savings and to avoid confusion) however rest assured that the re-weighting will never negatively impact any student's grade and calculating your grade based on the baseline points value will yield the minimum points value that you might receive.

Your individual grades for each course component will be posted on either Blackboard or directly in Connect. An excel sheet will be provided, through Dropbox, to allow you to better track your actual grades during the course of the semester.

Your letter grade will be determined by your individual points total for the course. **There will be no curving of the course grades.** Below is a tentative grade range breakdown for each letter grade. The instructors reserve the right to universally modify this grade scale prior to assigning final letter grades.

Letter	Percentage	Letter	Percentage
A	> 90%	C+	68-72%
A-	85-90%	C	63-68%
B+	81-85%	C-	59-63%
B	76-81%	D	53-59%
B-	72-76%	F	<53%

### Enrollment/Crashing Policy

**Enrolled students.** It is absolutely crucial that you attend the first three laboratory periods. Failure to do so may result in your spot in the laboratory section being given to another student. Notify the laboratory coordinator (chem200@mail.sdsu.edu before the first week of class) if you must miss a laboratory period in the first week of the semester for some legitimate reason. You must be able to attend the laboratory section of CHEM 200 for which you are enrolled; otherwise, you must drop the course and attempt to crash a different section that you can attend. If you decide to drop the course, inform the laboratory coordinator by email as soon as possible so your place can be given to a crasher.

**Crashers.** If you are attempting to crash CHEM 200, you must attend the lab section in which you wish to enroll in for the first two scheduled lab meetings of the semester. You must also satisfy all of the course prerequisites in order to crash the course. An online form will be made available to you during the first week of the course in order for you to register your preferred crashing lab sections. You will be notified as soon as possible if you are admitted into the course.

As a crasher you are advised NOT to buy the course textbook and/or the online homework access system (Connect). A free two week trail can be used by crashers until their enrollment in the course has been confirmed.

## Course Schedule

Lecture #	Date	Text Chapter	Topic
1	Aug 25, 2014	Chapter 1	Introduction/Review
2	Aug 27, 2014	Chapter 1 & 2	Nomenclature
3	Aug 29, 2014	Chapter 3	Limiting Reactants, Percent Yield
-	Sep 1, 2014	<b>No Class</b>	<b>Labor Day</b>
4	Sep 3, 2014	Chapter 4	Chemical Reactions
5	Sep 5, 2014	Chapter 4	Chemical Reactions
6	Sep 8, 2014	Chapter 4	Chemical Reactions
7	Sep 10, 2014	Chapter 5	Gas Laws & Kinetic Molecular Theory
8	Sep 12, 2014	Chapter 5	Gas Laws & Kinetic Molecular Theory
9	Sep 15, 2014	Chapter 5	Gas Laws & Kinetic Molecular Theory
10	Sep 17, 2014	Chapter 5	Gas Laws & Kinetic Molecular Theory
11	Sep 19, 2014	<b>Chapter 1-4</b>	<b>Review for Exam 1</b>
12	Sep 22, 2014	Chapter 6	Thermochemistry
13	Sep 24, 2014	Chapter 6	Thermochemistry
14	Sep 26, 2014	Chapter 6	Thermochemistry
15	Sep 29, 2014	Chapter 6 & 7	Thermochemistry & Quantum Theory
16	Oct 1, 2014	Chapter 7	Quantum Theory & Atomic Structure
17	Oct 3, 2014	Chapter 7	Quantum Theory & Atomic Structure
18	Oct 6, 2014	Chapter 7	Quantum Theory & Atomic Structure
19	Oct 8, 2014	Chapter 7 & 8	Quantum Theory & Atomic Structure
20	Oct 10, 2014	Chapter 8	Electron Configuration & Periodicity
21	Oct 13, 2014	Chapter 8	Electron Configuration & Periodicity
22	Oct 15, 2014	Chapter 8	Electron Configuration & Periodicity
23	Oct 17, 2014	<b>Chapter 5-8</b>	<b>Review for Exam 2</b>
24	Oct 20, 2014	Chapter 9	Models of Chemical Bonding
25	Oct 22, 2014	Chapter 9	Models of Chemical Bonding

Lecture #	Date	Text Chapter	Topic
26	Oct 24, 2014	Chapter 9	Models of Chemical Bonding
27	Oct 27, 2014	Chapter 10	Models of Chemical Bonding
28	Oct 29, 2014	Chapter 10	Shapes of Molecules
29	Oct 31, 2014	Chapter 10	Shapes of Molecules
30	Nov 3, 2014	Chapter 10 & 11	Shapes of Molecules
31	Nov 5, 2014	Chapter 11	Theories of Covalent Bonding
32	Nov 7, 2014	Chapter 11	Theories of Covalent Bonding
33	Nov 10, 2014	Chapter 11	Theories of Covalent Bonding
34	Nov 12, 2014	Chapter 12	Intermolecular Forces
35	Nov 14, 2014	<b>Chapter 9-11</b>	<b>Review for Exam 3</b>
36	Nov 17, 2014	Chapter 12	Intermolecular Forces
37	Nov 19, 2014	Chapter 12	Intermolecular Forces
38	Nov 21, 2014	Chapter 12	Intermolecular Forces
39	Nov 24, 2014	Chapter 13	Properties of Mixtures
-	Nov 26, 2014	No Class	Thanksgiving
-	Nov 28, 2014	No Class	Thanksgiving
40	Dec 1, 2014	Chapter 13	Properties of Mixtures
41	Dec 3, 2014	Chapter 13	Properties of Mixtures
42	Dec 5, 2014	Chapter 13	Properties of Mixtures
43	Dec 8, 2014	<b>All Chapters</b>	<b>Review for Final</b>
44	Dec 10, 2014	<b>All Chapters</b>	<b>Review for Final</b>

### Exam Schedule

	Date	Makeup Option 1	Makeup Option 2
<b>Exam 1</b>	Sat, Sep 20, 2014	Fri, Sep 19, 2014	Mon, Sep 22, 2014
<b>Exam 2</b>	Sat, Oct 18, 2014	Fri, Oct 17, 2014	Mon, Oct 20, 2014
<b>Exam 3</b>	Sat, Nov 15, 2014	Fri, Nov 14, 2014	Mon, Nov 17, 2014
<b>Final Exam</b>	Sat, Dec 13, 2014		

## Lab Schedule

	Monday Labs	Tuesday Labs	Wednesday Labs
<b>Safety Review</b>	Aug 25, 2014	Aug 26, 2014	Aug 27, 2014
<b>Experiment #1</b>	Sep 8, 2014	Sep 9, 2014	Sep 10, 2014
<b>Experiment #2</b>	Sep 15, 2014	Sep 16, 2014	Sep 17, 2014
<b>Experiment #3</b>	Sep 22, 2014	Sep 23, 2014	Sep 24, 2014
<b>Experiment #4</b>	Sep 29, 2014	Sep 30, 2014	Oct 1, 2014
<b>Experiment #5</b>	Oct 6, 2014	Oct 7, 2014	Oct 8, 2014
<b>Experiment #6</b>	Oct 13, 2014	Oct 14, 2014	Oct 15, 2014
<b>Experiment #7</b>	Oct 20, 2014	Oct 21, 2014	Oct 22, 2014
<b>Experiment #8</b>	Oct 27, 2014	Oct 28, 2014	Oct 29, 2014
<b>Experiment #9</b>	Nov 3, 2014	Nov 4, 2014	Nov 5, 2014
<b>Experiment #11*</b>	Nov 17, 2014	Nov 18, 2014	<i>Nov 12, 2014</i>
<b>Experiment #12*</b>	Nov 24, 2014	Nov 25, 2014	<i>Nov 19, 2014</i>
<b>Lab Practical Exam</b>	<b>Dec 1, 2014</b>	<b>Dec 2, 2014</b>	<b>Dec 3, 2014</b>
<b>Check Out</b>	Dec 8, 2014	Dec 9, 2014	Dec 10, 2014

\* **Note:** Experiment #10 will not be performed this semester.

### Pre-Lab Assignments

Pre-lab assignments will always be due by 11:00 pm the night before the lab. The pre-lab assignment must be completed by 11:00 pm the night prior to the lab. If you have not completed the pre-lab your TA has permission to deny you entry to the lab, on the basis that you have not prepared sufficiently. If you are denied entry to the lab you will be given a grade of zero for that lab.

## Online Assignment Policy

The deadlines for the online assignments, including pre-labs, homework, and quizzes are hard deadlines and not extensions will be granted. All assignments will be scheduled with sufficient time to allow you to complete the assignment in advance of the "last minute". *Consequently, you are solely responsible for any failures to complete the assignment by the scheduled time.* Problems such as lack of internet service, Connect site problems, or dogs eating WiFi antennas will not be acceptable reasons for not completing the assignments. *You are encouraged to complete the assignments well before the deadlines to avoid potential technological obstacles.*

In the case of an extended system-wide failure the instructors will be notified by the publisher of the textbook and steps will be taken to accommodate any problems that arise.

For all technical difficulties or errors that arise with the Connect systems please contact the Connect technical support staff directly, the instructors, lab coordinator, and TAs will be unable to help you resolve anything but the most basic (is it plugged in?) technical problems.

## Attendance Policy

### Excused absences:

Excused absences will only be awarded in the case of a legitimate reasons (illness, scheduled events, court appearances, etc.) as determined by the instructor. Proper documentation of the reason for the absence is required to avoid receiving a grade of zero on a missed course component. If at all possible, it is best to contact your instructor prior to the absence to ensure that the absence will be excused.

### For lectures:

Regular attendance in the lectures is strongly recommended. If you do have to miss class, you should obtain class notes from another student .

### For labs:

Attendance in **all** laboratory meetings is **REQUIRED**, and all lab work during the semester must be done in the scheduled laboratory periods. Under no circumstances will students be allowed to make up lab experiments. Note that Chem 202 students are required to attend only the laboratory and not the discussion section lab each week.

### For exams:

**Attendance for all exams is required.** For excused absences only there will be makeup exam days the Friday before the exam and the Monday following the exam. Students requesting to take the exam on one of the makeup days will need to sign-up through an online form that will be made available in the weeks before the exam. Students must sign-up in order to have permission to take the makeup exam. No other makeup times will be offered. It is your responsibility to ensure that you will be available for the makeup exam times.

*Only under exceptional circumstances, as determined by the instructor, will a makeup exam be granted for the final exam.*

### Test accommodations:

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact Student Disability Services at (619) 594-6473. To avoid any delay in the receipt of your accommodations, you should contact Student Disability Services as soon as possible. Please note that accommodations are not retroactive, and that accommodations based upon disability cannot be provided until you have presented your instructor with an accommodation letter from Student Disability Services. Your cooperation is appreciated.

Students who have made arrangements with SDS for test accommodations and require a signature from an instructor must make arrangements to meet the instructor outside of the class time to obtain a signature. Absolutely no forms will be signed immediately prior to, during, or after a lecture.

### **Policy on Cheating/Plagiarism**

There is a zero tolerance policy regarding plagiarism in this course. Any instances of cheating or plagiarism identified by the TA, lab coordinator, or the instructors, will result in a meeting between the instructor and student(s) following which the instance and documentation of plagiarism will be reported to the Academic Senate. It is your responsibility to know what constitutes cheating and plagiarism.

It should be noted that turning in a lab report for a lab that you have not performed, or the results of a lab that you had completed in a prior semester, both constitute cheating and plagiarism and will be reported - *all students must perform their own analyses in the labs.*

### **Am I Ready For Chem 200**

ASSUME THIS CLASS WILL REQUIRE A MINIMUM OF 15 HOURS OF YOUR TIME PER WEEK TO COMPLETE!

The prerequisites for CHEM 200 are one year of high school chemistry, two years of algebra, and a passing score on the Placement Test, or a passing grade (a C or higher) in Chem 100. Chemistry 200 is a demanding, 5-unit course which requires an enormous amount of time and your commitment to work hard! (Please do NOT take this course unless you are prepared to commit the necessary time and hard work.) It is advisable that you make Chemistry 200 the focus of your semester and that you do NOT overburden yourself with an unmanageable course load while taking this course. YOUR success is our success. and we want you to succeed in this course. YOUR success requires a large time commitment and hard work - please do NOT take this course unless you are willing to allow sufficient time to study, attend ALL lectures, and attend ALL labs with preparation in advance. Writing good laboratory reports also requires a lot of time and preparation prior to lab. You will enjoy your semester in Chemistry 200 - and you will benefit in the sciences so much more from all that you learn - if you allow yourself the time necessary to work hard and succeed! PLEASE ALLOW ADEQUATE TIME IF YOU TAKE THIS COURSE!