CHEMISTRY 1A
General Chemistry
Fall 2014

Dr. N. Melody Esfandiari
Lecture: MW 1:30-2:20 pm and F 2:30-3:20, Sci 142
Office: Duncan Hall 01
Email: via canvas

Please check your canvas periodically as handouts/online quizzes will be uploaded or emailed via canvas

Office Hours: M 2:30 – 4:00 pm
Tu 5:30 – 6:30 pm
W 2:30 – 4:00 pm

BOOKS/SUPPLIES/COURSES

Required
1) Chemistry: The Central Science – Brown, LeMay and Bursten – 10th, 11th or 12th edition (Or a college level Chem. text if you feel comfortable with a different textbook.)
2) Lab Manual for Chemistry 1A - Sold during the first 2 weeks of school by the Chemistry Student Club (DH20) - They only take cash!
3) Chem. 1A Booklet for Dr. Esfandiari (written by Dr. Singmaster) - Sold by the Chemistry Student Club (DH20). Contains sample exams, problems with solutions, abbreviated class notes, etc.
4) Hand-held scientific calculator - Must be non-programmable and should have log x, 10^x, ln x, e^x and x^y keys. - You will not be allowed to use your programmable calculator or your cell phone during a lecture or lab exam, or quiz!
5) Scantron forms 882-E (or ES) - Purchase four scantron forms to cover the three lecture exams and the final.

Not Required (But possibly useful/interesting)
1) Academic Excellence Workshops to help you study for Chem. 1A. These are 3 hour a week organized study sessions. We will have 4 to 12 different session facilitated by former Chem 1A students. I strongly encourage you to enroll in one of these workshops. I will provide more information on how to enroll.
2) “Uncle Tungsten - Memories of a Chemical Boyhood” – Oliver Sacks – A great book in which many of the experiments you do in lab and a significant amount of the history of chemistry is covered.
3) How to Study Science – Drewes and Mulligan - Helpful suggestions on how to approach science classes!!
4) Other Chemistry texts - Most freshman chemistry books are about the same in quality and content, however you might find another author's "prose" and text layout more to your liking. You can check out additional textbooks from Clark Library.
5) Solutions manuals to textbook problems - These options are available with your book.
6) Student study guide for full textbook.
7) The Cartoon Guide to Chemistry by Larry Gonick and Craig Criddle

THINGS YOU MUST DO THIS FIRST WEEK OF CLASS
1) Attend your lab section to claim your space. Miss your first lab, we drop you from the course!
2) Attend your seminars starting from the first Friday or lose points! Quizzes and lab discussion!
3) Read this greensheet thoroughly. It is the rules of the game. Best to know the rules before you start.
4) Read pages i – viii of the lab manual before attending your lab session.
5) Review significant figures/units/atomic and molecular weights. The handout will help. Do the practice
problems. We won’t be going over this in class. This is review from high school or Chem. 10!

6) If you decide to drop the course, please give Dr. Esfandiari a note with your name indicating that you will be dropping the course. It will allow us to add people efficiently.

7) Memorize your ions! List is in the Chem Booklet. Need to know them by end of second week of school…

8) Turn off your cell phone and/or pager, unless you have a family member with a serious medical condition (critical care, spouse in 9th month of pregnancy, etc.) or you are a fireman/policeman/FBI agent….

9) If you are trying to add you must attend one lab section and one seminar section a week until we add you. Please note the only person that can add you to the course are Dr. Esfandiari and Dr. Singmaster. The lab and seminar instructors do not have codes, nor can they save you a space. Adds will be done in order of priority. The adds will be announced in lecture and the list posted in the glass cabinets across from DH17. If you are offered a space, you must claim your space in writing within 24 hours by placing a note with your name, SJSU ID number and a statement indicating that you accept in my IN BOX on the door to DH16. Once we have that information, we will provide you with a permission number to add the lecture, lab and seminar.

PREREQUISITES/COREQUISITES
The prerequisites for Chem. 1A are completion of a one year high school chemistry course and Math 19 (Pre-calculus) and English 1A eligibility. You cannot be a remedial student. You need to recall your high school chemistry. **You should not enroll in Chem. 1A if you have not had high school chemistry, if you can’t remember your high school chemistry or if you had a weak high school chemistry!** You should take the Chem. 10 or 30A!!

Every student who wishes to remain in the course or who wishes to add the course must be present in lab and seminar for the safety discussion and must take and pass a safety quiz. If you are waiting to get into the class please make certain you attend the safety discussion and take the safety quiz. You must pass the safety quiz with a score of 8 or better!

OBJECT AND SCOPE OF THE COURSE
To gain knowledge and understanding of the basic principles of chemistry, and of their applications. Topics covered include stoichiometry, reactions, atomic structure, periodicity, bonding, states of matter, energy changes and solutions using organic and inorganic examples. Lab and seminar complement lecture.

BS/BA Chem Program Learning Outcomes Covered by Chem 1A Chem 1A provides basic, introductory support for the following degree outcomes.

PLO #1 - Demonstrate understanding of core concepts and to effectively solve problems in inorganic chemistry.
PLO #2 - Demonstrate understanding of core concepts and to effectively solve problems in organic chemistry.
PLO #3 - Demonstrate understanding of core concepts and to effectively solve problems in analytical chemistry.
PLO #4 - Demonstrate understanding of core concepts and to effectively solve problems in physical chemistry.
PLO #5 - Demonstrate understanding of core concepts and to effectively solve problems in biochemistry.
PLO #6 - Answer questions regarding safe practices in the laboratory and chemical safety.
PLO #7 - Demonstrate safe laboratory skills (including proper handling of materials and chemical waste) for particular laboratory experiments.

Chem 1A Course Learning Outcomes
The detailed learning outcomes sorted out by lecture exam are at the end of this greensheet.

ATTENDANCE/WORKLOAD
**Regular attendance to lecture, seminar and lab is required.** Lecture material will not necessarily reiterate text material. It is a serious mistake either to depend on a classmate's notes or exclusively on the textbook. It is essential to keep up with class work, homeworks and laboratories to succeed in this course. The instructor is not responsible for covering material you missed due to unexcused absences. I do not give xeroxed copies of my notes if you are
absent. **Absences to lab can and will result in an F grade for the FULL course** (two unexcused absences from lab are sufficient for me to drop or fail you!!). In an effort to reward those that attend class on a regular basis, several times during the semester we will have simple 1 point quizzes. Please remember that missing lecture or lab to study for another class is not an acceptable excuse. You signed up for your course load, you are now responsible for fulfilling the obligations that come with that course load.

**Please remember this is a 5 unit course, it will require a great deal of your time.** Seldom does a student who works and carries a full course load succeed in this class. Make arrangements now, don't wait until you are behind. **The university guidelines are three hours of study time per unit per week.**

Please email me if you are going to be absent from class for a legitimate reason. **ONE excused lab absence can be made up by attending another section and completing the work within the same week of the absence.** You will need the consent of the section's lab instructor. They are not required to accept you in their lab, particularly if their lab is full! I strongly encourage you to not be absent from lab.

**GRADING**

**Lecture Exams and Final**

Three fifty-minute exams (100 points each) will be given. The final exam (200 points) will be 2 hours long; it is a comprehensive multiple-choice exam. This course builds on itself so material covered on a previous lecture exam is needed in a following exam. The course lecturer reserves the right to give both in class quizzes and take home quizzes. There will be no make-ups for lecture exams. Should you miss an exam because of illness or equally compelling reasons, you should inform me of the fact as soon as possible, and hopefully before the exam is given. You can do so by emailing me. You will need to provide me with written evidence (doctors’ note, police report, etc.) for your excuse. If I accept your excuse, I will use the score on the final (questions pertaining to the particular exam) as your exam score. An unexplained or unsatisfactory excuse for missing a lab or exam will result in a grade of zero. You can arrange to take the exam a day early if you have a planned, excused absence for the exam day.

**In-Class Exam Dates (Closed book; No notes permitted)**

Exam 1: Wednesday, Sept 24th  
Exam 2: Wednesday, October 22nd  
Exam 3: Monday, November 24th  
Final Exam: Tuesday, Dec 16th

**Lecture Quizzes**

Several in class and/or take home quizzes will be given. No make-ups for missed quizzes. Missing quizzes will affect your grade!

**Laboratory**

The total lab grade constitutes 35% of the final grade. **Failing lab (55.0% or less) or lack of attendance to lab will result in an F grade for the FULL COURSE, irrelevant of how well you are doing in lecture.** Do not miss labs!! Details regarding the lab grade will be provided in attached lab greensheet.

**Grading Scale**

At the end of the semester you will receive a single grade for the course. The following grade scale is for the full course, including lab.

- **above 97.0 % A+**
- **79.9 - 77.0 % B-**
- **96.9 - 92.0 % A**
- **76.9 - 72.0 % C+**
- **91.9 - 89.0 % A-**
- **71.9 - 65.0 % C**
- **88.9 - 85.0 % B+**
- **64.9 - 61.0 % C-**
- **84.9 - 80.0 % B**
- **60.9 - 57.0 % D+**

**Incompletes** will not be given unless a strong compelling reason with proof is furnished to support the need for an incomplete. Incompletes will not be granted just because the university won’t late drop you or because the low grade will disqualify you, put you on probation or increase your car insurance payment! Incompletes do not remove past scores in exams! Incompletes are only given to persons who have completed at least 80% of the course. Incompletes are removed by completing pending tasks. I do not provide special projects to make up incompletes.
PLEASE note we DO NOT provide extra credit work at the end of the semester for students who are doing poorly. You need to perform well in your tests, lab reports and quizzes.

PLEASE note that I provide bonus points throughout the tests/quizzes to push your grade up a bit just in case you feel some grading was harsh or uneven. This can amount to as much as an extra 2%. At the end of the semester I decide letter grades using the scale above without providing additional bonus.

Percentage weight of each assignment type (lecture exams, lab exams, lecture quizzes, lab quizzes, final exam and report sheets) is also included in the Chem 1A Booklet.

MISCONDUCT

Students are to do only those laboratory experiments assigned. Certain chemicals when improperly used are very dangerous. You are responsible for disposing chemical wastes safely; the lab instructor will inform you on particular waste disposal issues for each experiment. If they forget to inform you, ASK THEM!! Any student found preparing anything that may in any way endanger her/his safety or the safety of others will be immediately dropped from the course with an F grade. Any student found disposing of wastes incorrectly is also in danger of being dropped from the course or failed. Students are expected to behave maturely and honorably in the lab and lecture course.

While taking exams or quizzes, the student should keep his/her eyes down on his/her own paper. No whispering or talking is allowed. You are not allowed to share a calculator or periodic table during exams or quizzes. If your calculator fails inform the instructor. They can then decide a course of action. No cell phones or PDAs are allowed. No headphones or devices in ears unless they are prescribed hearing aids. All printed or written material (notebooks, textbooks, etc.) should be placed under the seat, left outside the room or placed near the lecturer’s table, at the front of the room. Failure to comply will cause the instructor to pick up the exam and give a grade of F for the exam and/or course. Willful solicitation, procurement or conveyance of exams/quizzes/unknowns will also result in failure of the course. The instructor can and will bring the person caught cheating to the attention of the university committee in charge of student misconduct.

EMERGENCIES/EVACUATIONS

If you hear a continuously sounding alarm, or are told to evacuate by Emergency Coordinators (colored badge identities), walk quickly to the nearest stairway (end of each hall). Take your personal belongings with you as you may not be immediately allowed to return. Follow instructions of Coordinators. Be quiet so you can hear. Once outside, move away from the building. Do not return to the building unless the Police or Coordinators announce that it is permissible. If an alarm should occur during an exam or quiz, please attempt to give your instructor the paper.

MISCELLANEOUS

1) You must bring the lab manual to each lab class; you must bring the booklet of handouts to lecture; however you do not need to bring the textbook to lecture.

2) Safety glasses must be worn at all times during the lab experiments; if they fog up, take them off outside the room!! SJSU provides you with goggles in your lab drawer but you might consider buying your own at the bookstore. Sometimes the student chemistry club sells them.

3) Keep track of your scores. Also keep your exams, quizzes, etc. At the end of the semester compare your grade sheet with the lecturer and lab instructor's grade sheets to make sure we have transcribed and adjusted you grades correctly. **You have only 9 days from the day a quiz or exam is returned to ask for a regrade of your exam or quiz. I will not do regrades after nine days have passed.** I do not return the Scantrons for exams, so I strongly suggest you circle your choices on the exam.

4) Do not believe any sign written on the board saying the Chem. 1A class is canceled. Students in Lec. 1 are expected to wait for me until 1:45. If I am late, but get to class by or before that time, I will lecture.

5) Each exam in lecture will require that you sign a statement indicating that you have behaved in an honorable manner while taking the exam. This means that you have not used crib sheets, programmed equations, etc. in your calculator, requested information from a classmate, etc. The statement will also indicate that you are not aware of any other classmate cheating, etc. during the course of the exam. Although you might not be required to sign such a pledge in your lab quizzes, honorable behavior is still expected. Please be aware that you have classmates that do not tolerate cheating and will most likely inform the instructor if they observe such behavior. If you feel that you are unable to sign such a pledge, talk to me.

6) **If a fire alarm were to interrupt an exam please do the following:** Leave the room via the door closest to the instructor and give the instructor your quiz or exam. Provide assistance to any disabled students.
Take your books with you since there is some chance you might need to go to your next class before you are allowed in the room. Please note that if the cause of evacuation is a bomb threat, the Dean will request that I give him and UPD a list of students absent from the exam.

7) Please remember that you must check out of the lab even if you drop the course. A $25 charge will be billed to you if you do not check out.

8) You will be a locker with another student in a different section. Please do not leave any valuables in the locker. Leave the locker clean and without stored chemicals for the next student. We will financially penalize students who consistently leave the lockers dirty for the next student. Consider getting your own personal safety goggles or glasses, and do not leave them in the locker.

Campus Policy in compliance with the American Disabilities Act: If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the Disability Resource Center to establish a record of their disability.

Academic Integrity Statement: Your own commitment to learning, as evidenced by your enrollment at San Jose State University, and the University’s Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of Student Conduct and Ethical Development. The policy on academic integrity can be found at [http://sa.sjsu.edu/student_conduct](http://sa.sjsu.edu/student_conduct).

OFFICE HOURS

Starting on Aug 25th - M 2:30 – 4:00 pm; W 2:30 – 4:00 pm, and Tu 5:30 – 6:30 pm.

My office is located in the basement level of Duncan Hall Room 01; only two of the elevators make it down to the basement! Please be efficient and organized when you come to ask questions during office hours. I might have to limit the amount of time I spend with you if there are several students waiting.

On occasions I will have to cancel office hours due to medical appointments or important committee meetings. I'm sorry for the inconvenience. Please see if you can get assistance from one of the lab or seminar instructors.

LECTURE/LAB BUDDIES

In a difficult and time consuming class such as this one, it is often very useful to establish a buddy relationship with one or two students. You can lend each other notes, study together, collect handouts for each other and commiserate with each other. Seriously consider establishing such a relationship with someone in lecture and in your lab (doesn’t have to be the same person).

RESOURCES FOR HELP

1) Dr. Esfandiari (Lab and Lecture)
2) Seminar instructors (Lab and, to some degree, lecture also)
3) Lab instructors (Lab predominantly, although some can also provide excellent help for lecture)
4) Academic Excellence Workshops (Lecture) – You must be enrolled! Please note these are not tutoring sessions. They are organized, collaborative study times.
5) COSAC – The College of Science Advising Center is located in the second Floor of Duncan Hall, DH 213. They have peer advisors and tutors. Check their schedule.
6) SAACS - (DH20) Student club has tutors at selected times. Some are very good for 1A, others not as good. Look for someone who took 1A/B or 11A with Dr. Singmaster. Ask them what grade they got! You need to hunt down the good ones. I can make suggestions once I know who is tutoring.
7) LARC – Learning Assistance Resource Center – Student Resource Center – 10th St. Garage - Tutors for many of your classes, but again you might have to hunt down one that works for you. Look for someone who took either Chem. 1A/B or Chem. 11A with Dr. Singmaster. Ask them what grade they got!
8) ASPIRE – Student Resource Center – 10th Street Garage – Services are limited to low income, first generation college students or students with disabilities.
9) Counseling Services - They might have brochures or workshops on how to deal with test anxiety, if that is an issue you are having.
10) Private tutors – Cost $$. You might find ads in SAACS and in the hallways were Chemistry courses are taught (5th floor of DH, 1st floor of Sci) or you can post your ad in that room.

11) If you feel that you are unable to keep up with the class even though you have all the prerequisites; if you are spending ample time studying yet you never have time to finish exams and quizzes and/or if this class, for some reason, is testing your abilities to learn, you might consider paying a visit to the Disability Resource Center. They might be able to test you to determine whether you have a learning disability.

Rules for an exam in lecture

1) If there is assigned seating, then you must sit in the seat you are assigned! Check the seating chart well before the exam date! It will be posted a week before, both in lecture and in the glass cabinet near my office. Find the seat in the lecture hall a few days before the exam so that you do not waste time looking for it! If you reach your seat and it is broken, please come tell me and I will find another one. No sitting on the floor in the back of the lecture hall or on the stairs!

2) No programmable calculators. No sharing of calculators. (This applies to lab also!)

3) No cell phones or PDAs. They must be stored under the desk.

4) No head phones or other devices in ears unless they are prescribed hearing aids!

6) Ask for scratch paper. Do not pull it from your backpack.

7) Place backpacks under your seat so as to make sure that others don’t trip trying to get out. No open books, notes, etc. on the floor at your feet!

8) No talking during an exam, even if you have handed in your exam. Wait until you leave the room.

9) Leave by the door at the base of the room that we will open, not the back door, so that I can keep track of who is leaving and whether they have handed in the exam.

Rules for an exam in lecture

1) If there is a seating assignment, then you must sit in the seat you are assigned! Check the seating chart well before the exam date. Find the seat in the lecture hall a few days before the exam so that you do not waste time looking for it! If you reach your seat and it is broken, please come tell me and I will find another one. No sitting on the floor in the back of the lecture hall or on the stairs!

2) No programmable calculators, PDAs or cell phones. No sharing of calculators.

3) No caps, hats, etc. unless required by a physician. Then they need to be turned around.

4) No head phones or other devices in ears unless they are prescribed hearing aids!

5) Ask for scratch paper. Do not pull it from your backpack.

6) Place backpacks under your seat so as to make sure that others don’t trip trying to get out. No open books, notes, etc. on the floor at your feet!

7) No talking during an exam, even if you have handed in your exam. Wait until you leave the room.

8) Leave by the door at the base of the room that we will open, not the back door, so that I can keep track of who is leaving and whether they have handed in the exam.

9) You want to circle your choice on the exam as well as marking it on the Scantron. I return the exams, but I do not return the Scantrons!

10) You must hand in your Scantron, your exam and all scratch paper. All the “Student Information” portion on the first page of the exam must be filled out! The instructions will look like:

INSTRUCTIONS:

a) Please write fill out the Student Information above.

b) Please write your name and the course ID number on your Scantron.

c) Please write the exam number on your Scantron.

d) You can write on the exam, but please remember to record your choice on the Scantron. You must hand in the Scantron, this exam and all scratch paper if you want your exam graded. Please circle your choice on the exam also.

e) Sign the honor pledge below.

____________________________Signature ascertaining that you have behaved honorably while taking this exam.
1) Darken the space corresponding to letter _______.
2) Darken the space corresponding to letter _______.

Syllabus for Chem. 1A – Esfandiari

**TOPIC**

**Independent Study** of Units, Significant Figures, Dimensional Anal., Density, Temp., Atomic and Molec. Weight

Mole, % comp., empirical

Nomenclature

Solubility/Dissociation Rules

Net Ionic Equations

Chemical Reactions

Stoichiometry

Concentration and solution stoichiometry

Structure of Atoms

Periodicity

Bonding

Molecular Structure

Gases

Liquids and Solids

Heat Transfer and Thermochemistry

Organic Chemistry

**CHAPTER**

1, 2, 4, 3.3

3.4 - 3.5, booklet

2.5 – 2.8, booklet

4.1 – 4.2, booklet

4.2- 4.3, booklet

4.4, 20.1 – 20.2, booklet

3.6 – 3.7, booklet

4.5 – 4.6

2.1 – 2.4, Chap. 6

7.1 – 7.6, booklet

Chap. 8

9.1 – 9.6, booklet

Chap.10, booklet

Chap.11, 23.5 - 23.6, booklet

11.4, Chap. 5, booklet

2.9, 25.1 – 25.6

**Lab**

#1

#2

#3, 4

#3, 4

#3, 4, 5

#6

#9

#9

#10

#11

#12
Grade Record for Chem. 1A Students

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<th>Lab (35% of grade) (You must pass the lab with 55% or better to pass the course!)</th>
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### Chem 1A – Fall 2014 – Dr. Esfandiari Lecture (subject to change)

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