

CHEMISTRY 3AL – General Chemistry I (Section #5015)
Santa Rosa Junior College – Spring 2021
HYBRID CLASS – FIVE (5) IN-PERSON MEETINGS / Remainder ONLINE

Instructor: John C. Branca, Ph.D.

Office: Bech 1916 (**No in-person office hours this semester**)

Phone: (707) 535-3771 (**not likely to be answered due to current public health conditions**)

Email: jbranca@santarosa.edu

Office hours: Tuesday 9:00 – 10:20 AM (**ZOOM only**). Invitations will be available in Canvas.

Course Information:

Lab Lecture: Online - asynchronous.

Lab sessions: Five in-person with remainder as online exercises

The course material (from the Course Outline of Record):

Description:

General principles of chemistry, including atomic theory, bonding, stoichiometry, kinetic molecular theory of gases, properties of mixtures, the periodic table, and thermochemistry. Lecture portion of the first semester of a one-year program of general chemistry. Graded only.

Student Learning Outcomes:

After successful completion of this course, a student will be able to:

1. Describe matter, its transformations and corresponding energy changes according to prevailing chemical theories.
2. Interpret and solve problems in a chemical context using quantitative reasoning.

The Complete Course Outline can be found through the SRJC Schedule of Classes:

https://portal.santarosa.edu/SRWeb/SR_CourseOutlines.aspx?ck=CHEM3A

Required material:

- 1) Lab notebook for in-person sessions – any type of permanently bound notebook, not loose leaf, is acceptable. Pages must be sequentially numbered and space left at the beginning of the notebook for a table of contents.
- 2) Goggles and apron for in-person lab sessions – may be purchased at the bookstore or, if available from a prior chemistry class, you may reuse the set you own.
- 3) Scientific calculator. Must be able to do logs and square roots.

Grading and Assignments:

Lab reports 85% Lab Final Exam 15%

Lab reports must be typed and submitted electronically. Your grade depends upon the quality of the lab report and how closely you adhere to the published “Lab Report Guidelines” available in Canvas. Consult these documents **before** writing your lab reports.

Lab lectures should be viewed prior to beginning any lab activity, including those done completely online.

Grading scale (I reserve the right to lower the grade cut-off points as appropriate.):

A – 90-100% B – 80-89% C – 70-79% D – 60-69% F – <60%.

Attendance:

Attendance during weekly online office hours is recommended. **Attendance at the FIRST office hour meeting is mandatory. If you are unable to attend the first Zoom meeting, you MUST contact me by email, or you will be dropped from the class. No exceptions. Other students will be waiting to enroll if your position becomes available due to your absence.**

Excused absences from in-person lab sessions **require** documentation of a serious and compelling reason, for example, a doctor's note. Medically excused absences will **ONLY** be granted in the case of emergency visits to a physician. Regularly scheduled office visits, dental visits, etc., will **NOT** be excused. Please schedule these outside normal in-person lab session times. **There will be NO makeup for any in-person lab sessions missed.**

Late work:

Lab reports may be turned in up to one week late with a 20% penalty. Points will not be given for labs submitted more than one week late. All reports will be submitted electronically, and date and time stamped upon submission.

Accommodations for Students with Disabilities:

If you need disability-related accommodations for this class, such as a note taker, test-taking services, special furniture, etc., please provide the Authorization for Academic Accommodations Letter from the Disability Resources Department (DRD) to me as soon as possible. Please fill out any paperwork necessary for testing accommodations in advance of the exam and keep me informed of what you need. If you have not received authorization from DRD, contact the office directly. I will accommodate as required with an Authorization for Academic Accommodations Letter from the Disability Resources Department (DRD) only.

Academic Dishonesty:

The first time a student is caught cheating, that student will receive a score of zero for the assignment, and a report will be filed with the administration. If a second instance of cheating occurs, the student will receive an F in the course, and a second report will be filed. "Cheating" entails any use of unauthorized aid: for example, copying another student's lab report or portions of a lab report. If you are not sure, ask for approval in advance.

Portable Electronic Devices Policy: Unless previously approved by the instructor, the use of all types of portable electronic devices is prohibited during in-person lab sessions. No exceptions are allowed without prior authorization. **Calculators ONLY may be used.**

CHEM 3AL

SRJC, Spring 2021, Branca

Lab Schedule – Subject to change depending upon pandemic status / conditions

All in-person lab sessions will be held in Bech Hall 1980 from 9am – 12pm on Tuesdays

Lab Lectures are scheduled for 8 – 9 AM on Tuesdays, but will be available online and asynchronously only.

Week	Day	Date	Lab Activity
1			No labs due
2			Intro to CHEM 3AL. Safety Training I (online)
3			Laboratory Notebook, Excel Training, Calculations and Problem-solving (online)
4			Holiday week – no labs due
5			Measurements and Density (online)
6			Naming chemical compound (online)
7	T	3/2/21	InPerson 1: Check in. Safety Training (II). Synthesis of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$
8			Stoichiometry drill (online)
9	T	3/16/21	InPerson2: Ideal Gas Law
10			Chemical Reactions (online)
11	T	4/6/21	InPerson 3: Heat Capacity of an Unknown Metal
12			Thermochemical calculations (online)
13	T	4/20/21	InPerson4: Atomic Spectra
14			Lewis Dot Diagrams and Molecular Modeling (online)
15	T	5/4/21	InPerson 5: Determination of the Molar Mass of a Diprotic Acid
16			Intermolecular Forces (online)
17			Checkout
18			Final Exam – Tuesday May 25 - 7:00 – 9:45 AM

Zoom Etiquette and Behavior

1. Be sure to mute your mic (lower-left corner of your screen) as soon as you sign on and whenever you are not speaking. This is important and perhaps the most critical tip on this list to avoid background noise and distraction for others.
2. Consider muting your video (also on the lower left of the screen) if you are eating, scratching, talking with someone else in the room, or anything else that might be distracting to others.
3. Close unneeded applications on your computer to keep the video optimally functioning.
4. You might want to use a headset with an external mic for best hearing and speaking capabilities.
5. When you are speaking, let other know that you are finished by saying one of these sign-offs: “That’s all.” “I am done.” “Thank you.” So that everyone knows you have finished your comments.
6. If you want to speak, physically raise your hand or use the “raise hand” feature that is available at the bottom center of your screen.
7. You can ask questions and make comments silently to instructor by using the “Chat” feature (also on the bottom and center of your screen). During some of the Zoom meetings, the “Chat” feature may be turned off by instructor.
8. Be mindful of your background lighting. If you are sitting in front of a window, you may be completely darkened by the light coming through the window. Your overhead light might also need to be turned off or dimmed as well.
9. Be sure that there is nothing visually distracting (e.g., cars or people going by) in the background too.
10. Remember to sign out or “leave the meeting” when the session is finished.

Students had no problem last semester following these simple guidelines. However, repeated failure to do follow instructor Zoom tips will result in your removal from the Zoom meeting.