

Chemistry 100: Basic Chemistry Skills

Spring 2019

Course Description

Introductory course designed to develop necessary study skills to increase chances of success in general chemistry or chemistry for the allied health sciences.

Instructor

Janice Crowley

Lecture room: 1999

Class meets on Tuesday from 1:30 – 3:30 pm & Thursday 1:30 – 4:00 pm

Office: 1916 Bech Hall (Santa Rosa)

Office Hours: Thursday 8:30 – 11:30 pm

Email: jcrowley@santarosa.edu

Course Prerequisites: None

Student Learning Outcomes

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

1. Describe the basic structure of matter and relate it to the physical world.
2. Solve basic word problems involving chemical concepts.
3. Apply study skills to learning chemical concepts.

Text

Chemistry 100 Survivor Guide by J.P. Crowley (available at SRJC bookstore). You will also need a scientific calculator for this class.

Final Grade Cut-offs

90%-100%	A
78%-89%	B
66-77%	C
54%-65%	D
53% and below	F

Grading

Participation Activities (10%)	100 points
Quizzes & Assignments (30%)	300 points
3 Exams (60 %)	200 points ea. 600 points

Lecture Topics

Skills for success in chemistry:

- Strategies for Learning Chemistry
- Time Management
- Note-taking Skills
- Using a Textbook Effectively
- Problem Solving
- Preparing for and Taking Exams
- Introduction to the Laboratory

Preparation for success in Chemistry*

- Matter
- Physical and Chemical Change
- Chemistry Math
- The Scientific Method
- Atoms and Ions
- Atomic Mass
- The Periodic Table
- Ionic and Molecular Compounds
- Polyatomic Ions
- Formulas of Compounds
- Naming Compounds
- Moles
- Chemical Reactions
- Writing and Balancing Chemical Equations
- Types of Reactions
- Moles and Chemical Reactions
- Masses and Chemical Reactions
- Valence Electrons
- Bonding and Molecular Structure

*This pace of this class is determined by the students and the instructor. Some topics may be omitted in favor of spending more time on others.

Attendance and Active Participation in Class:

Attendance is mandatory for success in this class. Attendance and active, focused attention are crucial components to your success in learning this material. It is important not to miss a class or be late for lecture. Absences will be excused only for medical reasons or in the case of extreme necessity. Absences do affect your grade negatively. Excessive absences may result in the student being dropped from the course completely. There will be NO make-ups on exams for any reason other than a documented medical excuse.

Exams/Quizzes:

There will be 3 exams and many daily announced and unannounced quizzes. No make-ups for exams or quizzes will be given in this course unless proper medical documentation is provided.

Student Learning Outcomes (COR at SRJC) are found at
<https://portal.santarosa.edu/SRWeb/SRCourseOutlines.aspx?Semester=20167&CVID=36463>

Accommodations for Students with Disabilities:

If you use disability-related accommodations for class, please provide the authorization letter from the Disability Resources Department to me by the second day of class. I would also like to discuss the accommodations with you during office hours.

Re-Evaluation of Graded Work:

Graded work may be submitted for re-evaluation within one class period from when it was received. In comparing ones graded materials with that of fellow students, any difference must be confirmed by submission of both students' work for consideration. The document in question must be submitted with written detailed rationale for any changes requested. Based on this rationale, the entire assignment will be thoroughly evaluated. This re-evaluation can result in positive, negative, or no change to the original score.

Emergency Evacuation Plan:

In the event of an emergency during class that requires evacuation of the building, please leave the class or lab immediately and remain calm. We will meet in the open area between Bech Hall, Shuhaw Hall and Baker Hall to make sure everyone exited the building safely and to receive further instructions.

Copies of the red Emergency Preparedness Handbook are posted throughout the building and have more detailed information and procedures for most imaginable emergency situations. Any types of emergency can/should be reported to the district police dispatcher at (707) 527-1000.

Standards of Conduct:

All students are expected to do their own work. I applaud collaboration, at the end of the group study it is the responsibility of the individual to turn in their own work that is not a copy in any sense of other students. Cheating, or anything that can be construed as cheating will result in no credit given, or even worse.

No inter-student communication is allowed during exams including no sharing of calculators. Any comments or question you may have, must be directed toward the instructor by raising your hand and the instructor acknowledging you. No eating food in the classroom. To ensure an effective learning experience: use of cell phones in class is prohibited. Refrain from talking while lecturing is taking place because it is a distraction from learning. Lap tops are not necessary for lecture; therefore, use of them during class is not permitted. Follow the recommended study tips and you should do well.

Violation of appropriate student behavior may result in my giving the student 2 class days dismissal with zero credit for what is covered during the dismissal days. That includes, quizzes, tests, activity reports...

Student Conduct: The Sonoma County Junior College District supports a safe, productive learning environment to foster intellectual curiosity, integrity and accomplishment as defined in the District Mission and Goals. The District holds that students shall conduct themselves in a manner which reflects their awareness of common standards of decency and the rights of others. Interference with the District's mission, objectives, or community life shall be cause for disciplinary action. Policy 8.2.8: and policy 8.2.8 P the full policy may be found below. Also, refer to policy 3.11 and 3.11 P for academic honesty.

The following link will take you to the above policy and procedures:

<https://www.boarddocs.com/ca/santarosa/Board.nsf/Public?open&id=policies#>

Reading Assignments, Pencast Assignments, and Animation Assignments: Any additional assignment be it homework, pencast viewing or animation viewing are an important part of learning in this course. To attain the greatest success in this course, you should always do these recommended assignments the same day they are assigned after you have actively reworked your notes. These assignments are typically found in Canvas.

Homework Assignments: Chemistry is a vertical subject that is best learned in appropriate chunks. As an instructor I have gone to great lengths to not overburden you with an inordinate amount of information per lecture. Therefore, it is imperative that you complete the recommended homework assignments before the next class period to avoid gaps in understanding. Studying on a daily basis and not cramming increases your ability to retain long-term information and perform more successfully on comprehensive final exams. I will be providing answers to almost all your written assignments so you can double check your work immediately and know whether you are studying and learning what you need to know for proper preparation for the daily quizzes and the exams. Please note that I use Bloom's Taxonomy of questions on the exam which means I will ask recall questions, application questions, and higher order critical thinking questions. Cramming will not enable you to perform at the higher level.

Important Dates:

First Day of Class	Tuesday 03/26
Exam 1	Tuesday 04/16
Exam 2	Tuesday 05/07
Exam 3 (comprehensive) Last Day of Class	Thursday 05/16

Tentative Schedule:

Date	Topic
March 26	Introduction to Chem 100. Studying resources and strategies. Note-taking skills. Elements and symbols to memorize.
March 28	Unit 1
April 2	Unit 2
April 4	Unit 2
April 9	Unit 3
April 11	Unit 3
April 16	Exam 1 (Units 1, 2 and 3)
April 18	Unit 4
April 23	Unit 4, 5
April 25	Unit 5
April 30	Unit 5, 6
May 2	Unit 6, 7
May 7	Exam 2 (Units 4, 5, 6 and parts of 7)
May 14	Unit 7
May 16	Exam 3 (comprehensive including units 1-7)

Note: Unit 8 will be covered in lab activities and quizzes scattered throughout the course.

Please make a copy of this page, sign it and turn it into me by 03/26/2019 (First Day of Class – worth points)

Student signature: _____ Date: _____

Student printed name: _____

By signing above, I indicate my receipt and understanding of the syllabus, guidelines and calendar for Chemistry 100. This page, signed document and initialed items, is due March 26, 2019.

Place your initials by each sentence indicating you read and understand the statement.

_____ Research shows that material is best learned and retained if studying is done within 24 hours.

_____ To be successful in chemistry, it is highly recommended that I rework the notes from class and do my homework within 24 hours after each lecture.

_____ Focus in lecture leads to better understanding of concepts.

_____ SRJC guidelines for studying: it is recommended that I spend 3 hours studying outside of class for every hour I am in lecture. This means 9 hours studying outside of class per week for this course.

_____ Pencasts are good to watch right after learning the material and then again review before exam(s).

_____ There are 3 exams including comprehensive exam. Each exam builds off previous material. Each exam gets progressively more difficult.

_____ It is recommended that I copy my assignment pages before writing in them. Then complete the assignment in my study guide on the day it is recommended to complete the assignment. Then use the blank copies of the assignment pages as another assignment for me to do the weekend before the exam as a good practice.

_____ I understand that I can lose no more than 100 points to get an A in the class. I can lose 220 points to get a B in the class. I can lose 340 points to get a C in the class. I can lose 460 points to get a D in the class. If I lose more than 460 points, I get an F.

_____ I understand that I do not have permission to talk in class unless I raise my hand, and I am acknowledged by the instructor to ask my question.

_____ I understand the times for the office hours of my instructor and I am aware of the tutorial center hours in Doyle Library.

_____ I understand that there are no make-up quizzes, activities, or exams.