

Chemistry 100: Basic Chemistry Skills

Fall 2018

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: 1910

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

Office: 1916 Bech Hall (Santa Rosa)

Office Hours: Tuesday and Thursday 1:30 – 2:45 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).

Final Grade Cut-offs

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

Grading

Participation (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.

Standards of Conduct:

All students are expected to do their own work. This does not preclude collaboration and group study, but it does mean that anything put to paper and turned in is expected to come from that student. Cheating, or anything that can be construed as cheating will result in no credit given, or even worse consequences.

No inter-student communication is allowed during exams; any comments or question are to be directed toward the instructor. Lab experiments will often be done in pairs, but each student is expected to record his or her own data. It is not acceptable for one partner to take notes and the other partner to copy everything.

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>

Homework Assignments:

Homework is an important part of the process of learning and retaining information. Carefully completing assignments and doing the assignment as soon as possible improves understanding.

Reading Assignments:

Lectures are typically designed to help you understand the material present in the textbook. To get the most out of the lecture, one should always read the appropriate sections and watch pencasts before they are discussed in class.

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.

Important Dates:

No Classes **Thursday 11/22**

First Day of Class **Thursday 09/20**

Exam 1 **Tuesday 10/18**

Exam 2 **Tuesday 11/20**

Exam 3 (comprehensive) Last Day of Class **Thursday 12/13**

We will not meet during finals week.

Last day to drop a class without a ‘W’ symbol: Sept. 9

Last day to drop a class with “W”: **Nov. 18**

Tentative Schedule:

Date	Topic
September 20	Introduction to Chem 100. Studying resources and strategies. Note-taking skills. Elements and symbols to memorize.
September 25	Unit 1
September 27	Unit 1
October 2	Unit 2
October 4	Unit 2
October 9	Unit 3
October 11	Unit 3
October 16	Unit 3
October 18	Exam 1 (Units 1, 2 and 3)
October 23	Unit 4
October 25	Unit 4
October 30	Unit 4, 5
November 1	Unit 5
November 6	Unit 5
November 8	Unit 5, 6
November 13	Unit 6
November 15	Unit 6
November 20	Exam 2 (Units 4, 5 and 6)
November 27	Unit 7
November 29	Unit 7
December 4	Unit 8
December 6	Unit 8
December 11	Unit 8
December 13	Exam 3 (comprehensive including units 1-8)

Please make a copy of this page, sign it and turn it into me by 9/20/2018 (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 September 20, 2018.

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 exams.