Syllabus for: CHEM160 – CRN# 80955 – SCC Fall 2022

1. Quick Info:

- Lecture – meets in Vacaville room 215 from 2:00 - 3:15 am Tue/Thu starting Tue, Aug 16
- Lab - meets in Vacaville room 1122 from 11:00 am - 1:50 pm Tue starting Thu, Aug 18
- Office hours:
    - Vallejo VJOCTR 215: 8:30-9:00 am – Tue/Thu
    - Fairfield ASTC: 12:30-1:30 - Mon
    - Fairfield 1819: 12:30-1:30 pm – Wed
    - Vacaville VVCTR 215: 3:15-3:45 pm – Tue/Thu
- STEM Club: Fairfield 1819: 1:30-3:30 pm – Wed
- Personal questions/issues: email me at commodore.st.germain@solano.edu or text/call at (707) 386-9588
- Class questions should be posted on the same Discord: https://discord.gg/buTuTxYu5T
- You will need the class materials on the first day of class (see below)
- You are required to follow specific SCC COVID requirements here: https://welcome.solano.edu/coronavirus/. These may change over time. You are scientists and the scientific evidence shows that these guidelines have been effective in minimizing COVID-19 hospitalizations. It is important that we lead by example to benefit public health. If you cannot follow these guidelines, please consider taking a fully online section of CHEM 001 or contact Solano College directly and immediately. Failure to do so may result in you not being able to complete CHEM 001 this semester.
- This syllabus is only a guideline and adjustments may be made as needed throughout the semester.

2. How the class will be run:

In general, this standard grading scheme will be used to determine the final grade: 90-100% A; 80-89% B; 70-79% C; 60-69% D; 59% or less, F. I do not round and I do not give out free points because you are expected to earn your grade.

- Lecture is ~1 hour and 15 minutes long and will be a combination of traditional lectures and in-class activities. Here we will discuss concepts, work through practice problems, and have question and answer sessions. You are also encouraged to ask questions about things that you don't understand. You are expected to attend lectures and actively participate in class discussions and activities. I will attempt to record lectures and post links on Canvas but the lecture recordings are not guaranteed. If you miss something it is up to you to make up what you missed.
- Lab is ~3 hours will consist of in-class lab activities, wet experiments, computer simulations, worksheets, and/or group activities. Labs are mandatory and if you miss 2 labs, you can be dropped from the class.

Grading:

Grading Scheme	
Grading / Exams	Percent of Final Grade
4 Exams	40%
Final	20%
Lab Activities	20%
Assignments	10%
Quizzes	10%

Homework/Assignments:

We will cover ~1 topic every 1-2 weeks. There will be worksheets, assignments, and other optionally assigned problems.

Lab Activities:

Labs will be mostly from the online lab manual (see Class Materials) but there will be other provided lab activities. Lab grades will be from the successful completion of in-class lab activities, using safe lab practices, and accuracy of lab results

Quizzes:

There will be 4 take-home quizzes throughout the semester (25 points each). These quizzes can be taken together with other students. All work must be shown. This is due the 1-2 days before the midterms and may need to be submitted online as one document. The questions will be provided at least 2 weeks before the midterm so you have 2 weeks to work on it. There may also be 2 in-class quizzes that are timed (5 points each). I will give you advanced notice if we are having these 2 in-class quizzes.

Exams:

There will be 1 exam for each section (100 points each). These multiple choice exams will be taken during normal lecture/lab time unless you have arranged additional time through DSP. You are required to show all of your work and your work must submitted at the end of the exam. Most of the exam questions very similar to in-class questions, worksheets, take-home quiz questions, or other assignments. You may use any notes you take and assignments/quizzes you have completed but you will not have enough time to complete the test if you do not readily know the material. There are no make-up exams. If you miss an exam AND you have a confirmed medical excuse, your missed exam grade can be determined by your next exam grade. This replacement policy applies only to missing one exam.

Final:

There will be 1 cumulative final that covers sections #1-4 in the same format as the midterms but possibly.

3. Class Materials:

- Device(s) and connection that can access and/or upload documents to Canvas, Discord, OpenStax, LibreTexts, and Top Hat.
- Calculator – non phone
- Safety goggles
- Lab Manual – (online, free) through Top Hat at https://app.tophat.com/e/594410. The add code is: 594410. How to create your account and enroll in your course.
- Text Book (recommended) – Introduction to Chemical Principles, Stoker, 11th edition, Pearson, 2014
- Text Book (online, free) – LibreTexts.Org – Introductory Chemistry at Solano College
- Safety gloves (optional)
- Lab coat (optional)

4. Who I am:

My name is Commodore St. Germain. I did the bay area community college circuit as a student (NVC, SCC, DVC, Chabot, Merritt), earned my BS biochemistry/BA chemistry from SFSU 2014, and my PhD in Biochemistry, Molecular, Cellular, and Developmental Biology from UC Davis in 2020. I've been teaching since 2019 (chemistry, biology, and biotechnology). I spend a lot of my time: with my family/friends/dogs, exercising, watching true crime shows/anime, and talking (dreaming) about food. See more at comstgermain.com.

5. Course Description:

The fundamental principles of inorganic chemistry. Field trips may be required. Online work may be required. 4 unit course. NOTE: Not open to students who have completed CHEM 001, CHEM 010, or equivalent. General Education: SCC Area C. Non-transferable to UC or CSU. Hours: 48-54 lecture, 48-54 lab.

6. Resources:

- If you are having problems, please email me or come to my office hours as soon as possible.
- Admissions and Records important dates: https://welcome.solano.edu/ar-dates/
- Distance Education Resources: http://www.solano.edu/online_classes/

- Canvas Help Desk: Click on the "Help?" question mark in the lower left corner of your Canvas screen for current help desk hours, phone numbers, and Canvas tutorials. (Links to an external site: https://community.canvaslms.com/t5/Student-Guide/tkb-p/student) is a great resource for how-to information and tutorials.
- Student Services: http://www.solano.edu/online_student_services/
- Library: https://libguides.solano.edu/libraryresources
- Financial Aid: http://www.solano.edu/financial_aid/
- Discrimination and Sexual Harassment: http://www.solano.edu/student_service/grievances.php
- Tutoring: If you want tutoring and/or suspect you will need tutoring contact Solano College Academic Success and Tutoring Center as soon as possible - http://www.solano.edu/academic_success_center/. Sign up here: https://solano.instructure.com/enroll/EKEA7Y
- If you have a disability or think you have a disability please contact Solano College Disability Services Program as soon as possible - http://www.solano.edu/dsp/index.php

7. Plagiarism/Cheating:

From the SCC Student Handbook:

"An instructor who determines that a student has cheated or plagiarized has the right to give a failing (i.e. “F”) grade, or numerical equivalent, for the assignment or examination. Instances of alleged plagiarism or any other form of academic dishonesty may be referred to the Chief Student Services Officer for action in accordance with the established disciplinary procedures as set forth in Solano Community College Board Policy, §5300. Following procedures consonant with due process, a student may be expelled, suspended, or given a lesser sanction if he or she is found to have committed an act of academic dishonesty. The totality of the particular circumstances, the student involved, and any relevant mitigating factors shall be considered in every case."

8. Attendance and Participation:

From the SCC Student Handbook:

"Students must attend the first meeting of their classes to assure verification of their enrollments. Students failing to appear may be dropped from class rolls [Board Policy 5020]. Regular attendance and participation is required of all students enrolled in courses and laboratories at Solano College. This includes regular attendance, completion of examinations, assignments, participation in class activities and discussions. Instructors shall provide students with written statements describing course requirements, grading standards and course prerequisites. Regular attendance is an obligation assumed by every student at the time of registration. Absences per semester should not exceed the number of hours or the number of days that a class meets per week. Absences in excess of the maximum may result in students being dropped from classes or having their grades lowered."

9. Sick Policy:

If you are sick, stay home! Let me know as soon as possible and we will find you alternative assignments for the time that you are sick. Follow SCC guidelines found here: https://welcome.solano.edu/coronavirus/.

10. Workload:

Be prepared for about 12 hours of work per week in this course to pass. Additional effort may be needed to get higher than average grades. A three unit "lecture" course, by virtue of what is known as the Carnegie Unit, mathematically establishes a standard the amount of work expected from a student (and the instructor) in a 18-week course. California state law upholds this, see California Code of Regulations, Education Code, Title 5, Section 55002.5.

11. Student Learning Outcomes:

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

- Draw the Lewis structure of a molecular compounds and polyatomic ions.
- Identify and name the course-required list of elements, ions, molecular compounds, ionic compounds, etc.
- Show proficiency in lab techniques (measurements, titration, etc.)

Additional information can be found at https://solano.elumenapp.com/public/ -> Chemistry -> CHEM160 or at http://www.solano.edu/slo/.

12. Schedule:

This is the tentative schedule and may (probably will) change. The most up-to-date schedule will be on Canvas:

Day/Date	Wk	Lecture (chapter) (2:00 - 3:15 am, VVCTR 215)	Lab (Thu 11:00 am - 1:50 pm, VVCTR 1122), 16 meetings
Tue, Aug 16, 2022	1	Chapter 1, 2	
Thu, Aug 18, 2022	1	Chapter 2	safety (rules, video, and quiz, check-in, computer orientation
Tue, Aug 23, 2022	2	Chapter 3	
Thu, Aug 25, 2022	2	Chapter 3	Exp 1: Density and Miscibility
Tue, Aug 30, 2022	3	Chapter 4	
Thu, Sep 1, 2022	3	Chapter 4	Exp 2: Density of Liquids and Solids
Tue, Sep 6, 2022	4	Chapter 5	
Thu, Sep 8, 2022	4		review, Exam 01 (1, 2, 3, 4)
Tue, Sep 13, 2022	5	Chapter 5	
Thu, Sep 15, 2022	5	Chapter 6	Exp 3: Flame Test (computer)
Tue, Sep 20, 2022	6	Chapter 6	
Thu, Sep 22, 2022	6	Chapter 7	Exp 4: Empirical Formula
Tue, Sep 27, 2022	7	Chpater 7	
Thu, Sep 29, 2022	7	Chapter 8	Exp 5: Chemical Reactions
Tue, Oct 4, 2022	8	Chapter 8	

Thu, Oct 6, 2022	8		review, Exam 02 (5, 6, 7)
Tue, Oct 11, 2022	9	no class (professional development day)	
Thu, Oct 13, 2022	9	Chapter 8/9	Exp 6: Single Displacement Reactions and Activity Series
Tue, Oct 18, 2022	10	Chapter 9	
Thu, Oct 20, 2022	10	Chapter 9	Exp 7: Double Replacement Reactions
Tue, Oct 25, 2022	11	Chapter 10	
Thu, Oct 27, 2022	11	Chapter 10	Exp 8: Connductivity (computer?)
Tue, Nov 1, 2022	12	Chapter 11	
Thu, Nov 3, 2022	12		review, Exam 03 (8, 9, 10)
Tue, Nov 8, 2022	13	Chapter 11	
Thu, Nov 10, 2022	13	Chapter 13	Exp 9: Acid Base Titration
Tue, Nov 15, 2022	14	Chapter 13	
Thu, Nov 17, 2022	14	Chapter 14	Exp 10: Solutions
Tue, Nov 22, 2022	15	Chapter 14	
Thu, Nov 24, 2022	15	no class (Thanksgiving)	no class
Tue, Nov 29, 2022	16	early chapter review	
Thu, Dec 1, 2022	16		review, Exam 04 (11, 13, 14, 15)
Tue, Dec 6, 2022	17	review	
Thu, Dec 8, 2022	17	review	checkout, review
Tue, Dec 13, 2022	18	No class	no lab
Thu, Dec 15, 2022	18	1:30-3:30 pm	no lab