

CHEM 3 Course Syllabus

CHEM 3 Introductory Inorganic Chemistry 3 units 3 hours Lecture

Covers fundamental principles of inorganic chemistry. Topics include chemical calculations, classification of matter, the atomic and kinetic theories of matter and the mole concept. CHEM 3L is an additional requirement in preparation for CHEM 1A at Cabrillo. May be offered in a distance-learning format.

Instructor Jason Camara, Ph.D.
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Course Web Page: <https://ChemEd.study/>

Schedule Lecture: 6/14 - 7/22, M-Th 10:20 – 12:25 pm – **Zoom**
Final Examination: Thursday July 22th

Materials OpenStax College. *Chemistry: Atoms First 2e*; OpenStax CNX: Huston, TX, **2019** (ISBN: 978-1-947172-64-7). Retrieved from: <https://openstax.org/details/books/chemistry-atoms-first-2e>. About your textbook: OpenStax is part of Rice University, which is a 501(c)(3) nonprofit charitable corporation. *Chemistry: Atoms First 2e*, is a peer reviewed textbook licensed under the Creative Commons Attribution License 4.0. The book is freely available online and low cost in print version. This introductory book contains some content beyond the scope of our course, and we will abbreviate some chapters while skipping others entirely. Please pay close attention to the scheduled material when working ahead to avoid those areas of the text beyond our scope.

A Scientific Calculator, preferably a Texas Instrument 30 series, which will handle logarithm and exponents. Graphing calculators are acceptable.

Requisites Prerequisites: MATH 152 or equivalent skills or placement by multiple measures. Chem 3L is an additional requirement in preparation for Chem 1A at Cabrillo.

- Student Learner** 1. Analyze major chemical reactions and predict outcomes of simple chemical reactions from given reactants.
- Outcomes** 2. Write reactions with correct chemical names, formulas and balanced chemical equations.
3. Solve stoichiometry problems and unit conversion problems with appropriate conversion factors and significant figures.

Assessment Your grade will be based on your knowledge and command of the subject as demonstrated through problem solving exercises - Homework, quizzes, exams, cumulative final.

Homework (21.4%) - For each of the 15 chapters there are homework problems assigned. Each problem set and/or worksheet will be worth 10 points (15 assignments \times 10 pts = 150 points).

Quizzes (28.6%) - Quizzes will likely be a combination of online (Canvas) or sent out via email and returned through Canvas. The date and content of each quiz is detailed in the schedule. Quizzes will consist of up to four problems, and count for 20 points. There will be approximately a total of 10 quizzes (10 quizzes \times 20 pts = 200 pts).

Exams (28.6%) - There will be a total of two 100 point exams this semester. The date and content of each exam is detailed in the schedule (2 exams \times 100 pts = 200 pts).

Cumulative Final (21.4%) - The final will be cumulative over the semesters material and consistent in format with the midterm exams. This exam will count for 150 points.

The scoring breakdown is as follows:

		Points	Percentage
Homework	$15 \times 10 =$	150	21.4%
Quizzes	$10 \times 20 =$	200	28.6%
Exams	$2 \times 100 =$	200	28.6%
Final	$150 =$	150	21.4%
Total Points		700	

Classroom Listed here are some of the common courtesies and conduct expect in my classroom as well as the ramifications for not following them.

Conduct

and

Instructor

Policies

Cell phones - Please turn off your cell phone ringer prior to entering the classroom. If you need to be connected to the outside world during lecture (i.e. - ailing relative, child care issues, volunteer fireman....), sit along the isles and quietly leave the room before answering your phone.

Attendance - I don't take attendance other than on the first few days of class. My attendance policy is show up if you want to learn. Once in a while people are late for various reasons. If you come late to class, be respectful of your fellow students. Quizzes and exams start on time at the beginning of the lecture. If you come late to a quiz or an exam you will have only as much time as remains for the class. Missed quizzes may not be made up. If you must miss an exam you must contact me at your earliest convenience, preferably prior to the start of the exam. Exam make-ups are at the discretion of the instructor. Simply forgetting, missing the bus, oversleeping, parking issues, etc. are not valid reasons for requesting a make-up exam.

Grade disputes - I encourage all of my students to regularly attend office hours. The proper place to ask about grading is during office hours. If you feel that your answer is correct and that I have made a mistake in my grading, please take it up with me in office hours. I am more than happy to go over the grading of any work, however before class, during class and immediately after class are too chaotic for me to give you the attention you deserve for a grading issue.

Cheating - Cheating has never been a problem in my class, however it is your responsibility to not give me cause to think that you are cheating, in other words keep your eyes on your own work. Cheating on an exam or quiz will result in a zero for that assignment and in addition a disruptive student report filed with the Dean of Student Services. A second offense will result in being dropped from the course and receiving a failing grade.

Disruptions - A disruption is classified as an act that disrupts the normal function of the classroom, be it a distraction to me while lecturing or to your fellow students, that a reasonable person would not engage in. Examples of such disruptions are cell phones ringing after first warning, answering cell phones in class, engaging in disruptive conversations while lecture is proceeding, attempting to sit in the center of the room when coming to class tardy during lecture, quiz or exam (incredibly disruptive to your fellow classmates attempting to concentrate), etc.... The consequences for disruptive behavior are a three strikes policy. First disruptive behavior warrants a verbal warning, second time garners a Disruptive Student Report to the Dean of Student Services, third time you will be excused from the class and dropped from the role.

Nondiscrimination and Accessibility Notice The District is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. The District, and each individual who represents the District, shall provide access to its services, classes, and programs without regard to national origin, religion, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, or military and veteran status, or because he/she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

I encourage students with disabilities to explain their needs and appropriate accommodations, as evidenced by a counselor or specialist's recommendations, to me during office hours. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal opportunity for students with verified disabilities. To determine if you qualify, or if you need assistance with an accommodation, please contact the Accessibility Support Center (ASC, formerly DSPS), Room 1073 (upstairs in the Library), (831) 479-6379 or (831) 479-6370.

Expectations of your Instructor You can expect to find me approachable. You can expect that I will fully answer your questions regarding course content or grading when such questions are asked at the appropriate time. You can expect that your work in the course will be evaluated fairly without bias and will be returned in a timely manner. You can expect that I will start and end class on time. You can expect to be treated with respect at all times. You can expect that I will provide you with a challenging and engaging semester which will prepare you for whatever future goals you have that have led you to take my course.

Homework Assignments Summer session moves very fast. It is imperative that you keep up with the homework. Proficiency with these concepts only comes with sufficient practice, and the concepts build on each other. Listed below are all of the homework assignments for the course and the due dates.

A word about homework - Homework is not something you just throw together and turn in to get the points. Homework is critical practice for the quizzes and exams. I want the work you turn in to be neat and organized. I want to see the work used to solve the problems, not just the answers. Your work should be clean, with good space between steps. Work in pencil, not pen. Do not try to save paper by cramming everything in as tight as possible. Make the effort and turn in something that you are proud of. I promise you the added effort will result in improved study skills that will bring rewards throughout your entire educational career.

The homework for each chapter will be listed in Canvas.