

# CHM 1025C Introduction to Chemistry

CRN 33789

Summer 2021

| **Contact Information** | **Meeting times** |
| --- | --- |
| **Instructor:** Josh Knorr | **Lecture:** On your own |
| **Email:** Jknorr1@valenciacollege.edu | **Lab:** On your own |
| **Office hours:** Appointment only, over zoom |  |

# Course Description -REVISED FOR 100% ONLINE

4 Credit hours. Prepares students without high school chemistry or with inadequate background for CHM 1045C. Will teach modern chemical theories used to develop understanding of fundamentals of inorganic chemistry and its applications. Emphasis on quantitative relationships, using dimensional analysis to solve problems. Laboratory experiences are integral part of course. May not be taken for credit subsequent to earning C or better in CHM 1045C.

# Course Prerequisites

Minimum grade of C in high school Honors Algebra II or MAT 1033C or higher MAC prefix course. Prepares students without high school chemistry or with inadequate background for CHM 1045C. (4 Cr). May not be taken for credit subsequent to earning C or better in CHM 1045C.

# Required Materials

* Introductory Chemistry: Concepts and Critical Thinking (8th edition) Charles Corwin with Mastering Chemistry. ISBN: 9780136659099
* Webcam
* Computer with reliable internet access
* Non- Programmable Scientific Calculator (**Recommended TI-30XIIS**)
* Access to lecture slides will be given to students, but it is the student's responsibility to download and print them before class. They **will not be** a replacement for the textbook.
* All supplementary material can be found [on canvas](https://online.valenciacollege.edu/)

# Evaluation and Assessment Guidelines

* Three exams (3 x 100 pts) 300 pts
* Final Exam 208 pts
* Quizzes (9 x 20) 180 pts
* Virtual Labs (12 x 10 pts) 120 pts
* Mastering Chemistry (12 x 10 pts) 120 pts
* Discussion postings (12 x 10 pts) 120 pts
* **Total = 1,048 pts**

*Final Grade:* *A =100% - 90% ; B =89.9% - 80%; C = 79.9% - 70%; D =69.9% - 60%; F =< 60%*

# Assignments

## Exams and quizzes

Exams, including the final, and quizzes are to be done online and due by 11:59 pm on their assigned due date. All quizzes and exams require a webcam for Honorlock virtual to be followed, and use of external materials are prohibited unless otherwise proctoring. Only one attempt will be allowed on each exam/quiz. Exams will be made available for a 24 hour period on the date specified by the syllabus. Academic integrity policies are expected specified.

All exam dates are announced at the start of the semester and students are expected to plan their schedules accordingly. There is generally no flexibility with these dates, except under rare and extenuating circumstances that have been discussed and approved in advance. Exams cannot not be re-scheduled due to work schedules or vacations.

Completed exams will not be routinely made available for review by the student; however, this may be scheduled by contacting the instructor via e-mail. The printing and/or distribution of any quiz or exam items are strictly prohibited.

[More information about Honorlock virtual proctoring can be found here](https://valenciacollege.edu/faculty/canvas-resources/online-remote-proctoring-students.php),

## Mastering Chemistry assignments

Mastering Chemistry homeworks are assigned every week, and due by 11:59 pm on the assignment due date, which is the Friday of that week.

## Virtual lab

Virtual labs are to be completed by 11:59 pm on the assignment due date, which is the Friday of that week.

## Discussion postings

Discussion postings for the week are to be completed by 11:59 pm on the assignment due date, which is the Friday of that week. In these discussion postings, you are to make one (1) posting discussing **both** what concept you found most difficult to understand that week – your “muddiest point” **and** what concept you found easiest to understand – your “clearest point”.

In addition to your own discussion posting, you must also comment on the discussion posting of at least one (1) of your classmates providing thoughtful insight or discussion that adds to the overall conversation. Examples of this would be helping to explain something about your classmate’s muddiest point that you understand.

All discussion postings **MUST** follow [netiquette](https://online.valenciacollege.edu/courses/86469/pages/course-communications?module_item_id=4963067)

# Important Dates

Drop/Refund Deadline: May 17th, 2021

Withdrawal deadline to receive a “W”: July 2nd, 2021

Memorial Day (no classes): Monday, May 31st 2021

Independence Day (no classes): Friday, July 2nd 2021

**Final Exam DUE: Monday, August 2nd 2021**

# General Policies

## Grading and evaluation

There is **no curve** in the class. The grades are final and are non-negotiable. **It is the student's responsibility to attend to participate in the course and submit all required work.** The Final Exam is an essential component of the course and it is mandatory. Failure to take the final exam will result in failing the course. There is no makeup for the final.

## Attendance and participation

Participation will be monitored throughout the course via responses to questions, surveys, labs, and completed quizzes and exams. A period of no participation can greater than 10% of the semester, at the instructor’s discretion, result in a removal from the course.

## Hand-out materials

The instructor will give **access to class materials for the benefit of the students (lecture notes, additional material, etc) via Canvas**. However, it is the student's sole responsibility to download and keep these materials. **The instructor will provide practice problems from the end of the chapters.** These problems are for your practice and self-assessment. Although they are not graded, practice is essential to master the concepts being learned.

## Deadlines

Labs are due by 11:59 pm by the due date listed on the syllabus in the correct format (see laboratory post labs above). Late work will not be accepted.

Quizzes and Exams will be open for a 24 hour period on the due date that is listed in the syllabus. Quizzes and exams are due by 11:59 pm on the due date and will close at this time.

## Late, make-up and extra credit work

Make-up exams and assignments will only be given upon valid, documented VC excuse. **Late work will not be accepted.**.

## Academic integrity

All forms of academic dishonesty (cheating, plagiarism, forgery, misuse) are prohibited as stated in the Student Code of Conduct and will be disciplined or penalized accordingly. **Plagiarism is defined as claiming as your own a paper, report, article, or speech which in whole or in part was prepared by someone other than yourself**. Students caught cheating or plagiarizing other’s work will be given a failing grade (zero) on the work for a first offense. Any repeated offense will result in an F grade for the course and a referral to the Dean of Students for further disciplinary action.

## Computer/Equipment Use Policy

Use of computers in the Business, IT, and Public Service classrooms at Valencia College is restricted to those activities designated by the instructor to enhance the class materials. Any other use is strictly forbidden. Inappropriate use includes, but is not limited to:

* Use of computer to send Email or access Internet sites not specifically assigned in class.
* Use of computer for job, internship, or other activities not assigned in class.
* Modifying any hardware or software system configuration or setting.
* Activities not in accordance with the Valencia Student Code of Conduct.
* Use of computers in the departmental open lab is limited to those activities involved with preparing homework or coursework in this department and is subject to the same restriction as listed above.

Computer use is remotely monitored; any student using computers inappropriately may be subject to dismissal from class or banishment from the lab. Subsequent offense may be sent to the campus administration for further disciplinary action.

## Student conduct

By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding the general rules of conduct. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty to leave the class. Violation of any classroom or Valencia’s rules may lead to disciplinary action up to and including expulsion from Valencia.

## Disability Access Statement

Students with disabilities who qualify for academic accommodations must provide a letter from the Office of Students with Disabilities (OSD) and discuss specific needs with the instructor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities.

## Withdrawal Policy

Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of “W.”  A student is not permitted to withdraw after the withdrawal deadline.  A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy.  A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.”  Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.”

Students on financial aid should consult an advisor or counselor before withdrawing from a course; there may be financial implications to the student which he or she must know about to make an informed decision before withdrawing from a course. Students with certain forms of scholarships who withdraw or are withdrawn from a class must pay the college for the cost of the class. Other scholarship sponsors may also require repayment.

## Valencia Core Competencies

Valencia faculty has defined four interrelated competencies (Think, Value, Communicate, ACT) that prepare students to succeed in the world community. These competencies are outlined in the college catalog. In this course, through lecture and discussion, group work, and other learning activities, you will further develop your mastery of those competencies.

## Disclaimer Statement

This outline may be altered, at the instructor’s discretion, during the course of the term. It is the responsibility of the student to make any adjustments as announced.

## Proctored Exam Requirement

This course utilizes Honorlock, an online exam proctoring service, to promote academic integrity during online testing. You do not need to create an account, download software, or schedule an appointment in advance. Honorlock is available 24/7. After you verify your identity and scan your room, you can begin your exam. Honorlock will record you via webcam, as well as record your screen activity. Honorlock’s system also includes a process that can detect inappropriate search-engine use, while protecting the privacy of your personal information. The recorded information will be subject to the protection of the College’s policy on Student Records.

To take an online exam, you will need:

* A laptop or desktop computer with a microphone (not a tablet or phone)
* A webcam
* Reliable Internet connection
* Photo identification in the form of a Valencia-issued student ID card or government-issued ID card (i.e. driver’s license, passport)
* [Google Chrome](https://www.google.com/chrome/?brand=CHBD&gclid=CjwKCAjwqJ_1BRBZEiwAv73uwOdMgfo6w2jRYwQeMaGP_zdF8jUt2fxhF6RJTyd17J37_K7IdkhjthoCF3kQAvD_BwE&gclsrc=aw.ds) downloaded (required browser)
* [Honorlock Chrome Extension](https://static.honorlock.com/install/extension) downloaded

Honorlock support is available 24/7/365. Support access is built into Honorlock in real-time.

If you encounter any issues during an exam, you can contact support by live chat within the Honorlock window in Canvas, by phone (855-828-4004), and/or by email at support@honorlock.com. For answers to common questions on online proctoring, visit the [Student FAQ](https://valenciacollege.edu/faculty/canvas-resources/online-remote-proctoring-students.php) page or Honorlock’s [student information website](https://honorlock.kb.help/).

# Student Support Services

## Tutoring

Tutoring can be found in building 7, second floor, room 240. You can make an appointment via atlas, or walk in during (provide tutoring hours for relevant subject). In addition, [Free online tutoring](https://valenciacollege.edu/students/learning-support/smarthinking-online-tutoring.php) (Smarthinking) is available through Atlas via the courses tab. Information about online tutoring can be found [here](https://libguides.valenciacollege.edu/distancetutoring)

## ESOL

For assistance for ESOL (English as a second language) students or reading comprehension, you can go to the writing center in building 5, room 155 during 8 am to 8 pm Monday – Thursday, 8 am – 5 pm Friday, and 9 am – 2 pm Saturday. You can also call them to make an appointment at 407-582-5454

## Counseling Services

Valencia College is interested in making sure all our students have a rewarding and successful college experience.  To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work.  BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available. Appointments can be made fusing the [academic advising and counseling services website](https://valenciacollege.edu/students/advising-counseling/)

## Academic Advising

Valencia College offers free academic advising to students to provide support on topics like career and academic planning, transitioning to a university, and how to enhance college success skills. You can connect virtually with an advisor [here](https://valenciacollege.edu/students/advising-counseling/virtual-advising.php), Monday – Thursday 8 am – 8 pm, Friday, 9 a. – 5 pm, and Saturday and Sunday 12 pm – 5 pm.

## International Advising

If you are an international student on an F or J visa, please contact **International Student Services** for assistance on advising, academic planning and more. The email address is iss@valenciacollege.edu.

## Financial Aid

Information about financial aid, including applying for financial aid, Pell grants, federal student aid, FAFSA, or Florida department of education office of student financial assistance can be found [here](https://valenciacollege.edu/finaid/)

## Office for Students with Disabilities (OSD)

The Office for Students with Disabilities (OSD) is committed to the fulfillment of equal educational opportunity, autonomy, and full inclusion for students with disabilities. The OSD exists to determine and ensure appropriate accommodations for qualified students with documented disabilities, to assist students in self-advocacy, to educate the Valencia community about disabilities, and to ensure compliance with the ADA, ADAAA and Section 504 of the Rehabilitation ACT.

Information on how to receive academic accommodations and who is eligible can be found at the OSD website [here](https://valenciacollege.edu/students/office-for-students-with-disabilities/index.php)

## Other services

More information about other services, including answers about admissions, assessment, transcripts, residency and more can be found at the answer center. You can reach them Monday – Thursday 8 am – 8 pm, Friday, 9 a. – 5 pm, and Saturday and Sunday 12 pm – 5 pm at 407-582-1507, or at enrollment@valenciacollege.edu. You can also visit their website [here](https://valenciacollege.edu/students/answer-center/index.php)

# Weekly Schedule

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| --- | --- | --- | --- | --- |
| **Week** | **Laboratory** | **Recommended lecture pacing** | **Quiz/Exam (Chapters)** | **Assignment Due Date** |
| Week 1 part 15/10 – 5/16 | Experiment 0: Lab safety | Prerequisite science skills  | **Honorlock quiz** | Due by 11:59pm **5/16** |
| Week 1 part 25/10 – 5/16 |  | Chapter 2 The Metric System | **Quiz 1** (Pre-requisite Science skills PSS) | Due by 11:59pm **5/16** |
| Week 25/17 – 5/23 | Experiment 1: Lab skills | Chapter 3 Matter and Energy | **Quiz 2** (Ch 2) | Due by 11:59pm **5/23****(Drop deadline 5/17)** |
| Week 35/24 – 5/30 | Experiment 2: Density | Chapter 4 Models of the Atom | **Quiz 3** (Ch 3, 4) | Due by 11:59pm **5/30** |
| Week 46/1 – 6/6 | Experiment 3: Flame spectra | Chapter 5 The Periodic Table | **Exam 1** (PSS – Ch 4) | Due by 11:59pm **6/6** |
| Week 56/7 – 6/13 | Experiment 4: Periodic table | Chapter 6 Language of Chemistry | **Quiz 4** (Ch 5, 6) | Due by 11:59pm **6/13** |
| Week 66/14 – 6/20 | Experiment 5: Electron configuration | Chapter 7 Chemical Reactions | **Quiz 5** (Ch 6, 7) | Due by 11:59pm **6/20** |
| Week 76/21 – 6/27 | Experiment 6: Nomenclature | Chapter 8 The Mole concept | **Exam 2** (Ch 5, 6, 7) | Due by 11:59pm **6/27** |
| Week 86/28 – 7/4 | Experiment 7: Reactions in solution | Chapter 9 Chemical Equations and Calculations | **Quiz 6** (Ch 8, 9) | Due by 11:59pm **7/4****(Withdraw deadline 7/2)** |
| Week 97/5 – 7/11 | Experiment 9: Empirical formulas | Chapter 10 Gases | **Quiz 7** (Ch 10) | Due by 11:59pm **7/11** |
| Week 107/12 – 7/18 | Experiment 10: Stoichiometry | Chapter 12 Chemical Bonding | **Exam 3** (Ch 8, 9, 10) | Due by 11:59pm **7/18** |
| Week 117/19 – 7/25 | Experiment 11: Gases | Chapter 13 Solutions | **Quiz 8** (Ch 12, 13) | Due by 11:59pm **7/25** |
| Week 127/26 – 8/1 | Experiment 13: Titration | Chapter 14 Acids and Bases | **Quiz 9** (Ch 13, 14) | Due by 11:59pm **8/1** |
| FINAL8/2 | **NO LAB** | **FINAL EXAM** | **All chapters covered** | Due by 11:59pm **8/2** |

**\*Instructor reserves the right to adjust, modify, or change any schedule**

# Recommended text-book end of chapter problems (odd numbered problems)

| **Chapters** | **Homework** |
| --- | --- |
| 2 | 1-65, 77-95 |
| 3 | 1-67, 79, 81, 95 |
| 4 | 1-13, 19-45, 67-71, 77-81 |
| 5 | 9-37, 41, 47-79 |
| 6 | 1-77 |
| 7 | 1-87 |
| 8 | 1-25, 31-67 |
| 9 | 1-85 |
| 10 | 1-77 |
| 13 | 1-69, 83 |
| 14 | 1-75, 81, 83 |
|  |  |