

General Chem Lab I-19679 CHEM-1111

DL1 2023 Section 791 1 Credits 01/23/2023 to 05/14/2023 Modified 01/01/2023

Our Vision

Houston Community College shapes the future for all students with innovative, affordable, timely, responsive, and continuously improving educational programs and services. Partnered with the communities we serve, we take a defining role in regional economic, workforce, and social development.

<https://www.hccs.edu/about-hcc/> (<https://www.hccs.edu/about-hcc/>).

Course Meetings

Course Modality

In-Person(P)

Meeting Days

Every Wednesday

Meeting Time

2:00 - 4:50 PM

Meeting Location

Room # 409, Central Campus

Welcome and Instructor Information

Instructor: Ms. Usha Kiran Kala

Email: usha.kala@hccs.edu

Office: ukala@houstonisd.org

Phone: 7139421430

What's Exciting About This Course

This course is exciting because you will learn various concepts of Chemistry by experimenting, exploring and investigating. Learning by doing is the best cognitive learning. You will also learn the importance of safety in Lab and will also explore how to dispose of the chemical waste. I am sure that you will enjoy this course and it will enhance your lab skills.

My Personal Welcome

Welcome to Introduction to Chemistry—I'm delighted that you have chosen this course. I will present the information in the most exciting way I know, so that you can grasp the concepts and apply them now and hopefully throughout your life. As you read and wrestle with new ideas and facts that may challenge you, I am available to support you. The fastest way to reach me is by my HISD email. The best way to really discuss issues is in person and I'm available during school time to tackle any questions you might have. My goal is for you to walk out of the course with a better understanding of yourself and of human behavior. So please visit me or contact me whenever you have a question.

Preferred Method of Contact

I prefer email ukala@houstonisd.org. I will respond to emails within 24 hours Monday through Friday; I will reply to weekend messages on Monday mornings.

I will create a REMIND Log In and you can also use REMIND to notify me.

Course Overview

Course Description

CHEM 1111 is intended for students majoring in one of the physical sciences or life sciences, engineering, or for students who are pursuing pre-professional programs in medicine, dentistry, pharmacy, veterinary medicine, or other health programs. The course is also beneficial to students who are preparing themselves for higher level science courses in their respective curricula.

Science and engineering majors study atomic structure, chemical reactions, thermodynamics, electronic configuration, chemical bonding, molecular structure, gases, states of matter, and properties of solutions. The laboratory includes appropriate experiments.

Requisites

This course requires college-level reading and writing skills. Research indicates that you are most likely to succeed if you have already taken and passed Reading 0342, Math 0312 and Writing 0310 / 0349 or Math 0312 with INRW 0420. For this course, additional prerequisites are completion of one year of high school chemistry or CHEM 1305 (Introduction to Chemistry) and MATH 1314 (College Algebra). Other minimum requirements for enrollment in CHEM 1311 include placement in college-level reading (or take INRW 0420).

Must have passed CHEM 1311 with a grade of D or above, or co-enroll in CHEM 1311 as a co-requisite.

If you have enrolled in this course having satisfied these prerequisites, you have a higher chance of success than students who have not done so.

Please carefully read and consider the repeater policy in the [HCCS Student Handbook](#).

Department Website

<https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/chemistry/>

Core Curriculum Objectives (CCOs)

The HCCS Chemistry Discipline Committee has specified that the course address the following core objectives:

- Reading/ Writing: Students will engage in reading and writing activities through the laboratory exercises by reading labs prior to class, completing pre-lab activities, and writing results in lab reports, providing an understanding of chemical concepts observed in the lab.
- Speaking/Listening: Students will learn to communicate significant lab findings with their peers as well as the instructor by asking (speaking) and answering (listening) questions throughout the experiment.
- Critical Thinking: Students will demonstrate a deeper understanding of chemical concepts by completing labs, collecting data and analyzing results, and drawing conclusions. Connections to broader chemical topics may also be made.
- Computer/Information Literacy: Students will engage in utilization of computer and written references as resources as they prepare for and complete lab reports.

Student Learning Outcomes and Objectives

Program Student Learning Outcomes (PSLOs)

Can be found at <http://learning.hccs.edu/programs/chemistry>.

Course Student Learning Outcomes (CSLOs)

SL01. Learn Proper Safety Practice and Measures in the chemistry laboratory.

SL02. Practice Basic Lab Techniques of Measurement and Conversion

SL03: Perform separation of mixtures using proper technique

SL04: Identify physical properties

SL05: Observe various chemical reactions and write supporting chemical equations

SL06: Calculate empirical and molecular formulas and reaction yield

SL0 7: Apply thermochemical principles to evaluate energy relationships based on specific heat, calorimetry, and temperature changes.

SLO 8. Relate the properties of gases with the gas laws and extend the application of these relationships to reaction stoichiometry, gas mixtures, and effusion/diffusion of gases.

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SLO 8. Relate the properties of gases with the gas laws and extend the application of these relationships to reaction stoichiometry, gas mixtures, and effusion/diffusion of gases.

SLO 9. Depict chemical bonding with dot structures and valence bond theory and determine the molecular shapes (geometry) of molecules based on VSEPR and valence bond theory.

Learning Objectives for each CSLO can be found at [Learning Objectives for CHEM 1111](#).

Departmental Practices and Procedures

A comprehensive lab exam is required at the of this course.

Department Specific Instructor and Student Responsibilities

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through class activities, discussions, and lectures
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness and make up
- Provide the course outline and class calendar which will include a description of any special projects or assignments
- Arrange to meet with individual students before and after class as required

To be successful in this class, it is the student's responsibility to:

- Attend "online" class and participate in class discussions and activities
- Read and comprehend the textbook and instructor notes
- Complete the required assignments and exams
- Practice problems
- Ask for help in a timely manner when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Keep up with your grades which will be posted in the Canvas Gradebook
- Attain a raw score of at least 70% on all assignments
- Take the final exam during the designated testing period

Be aware of and comply with academic honesty policies in the [HCCS Student Handbook](#)

Program-Specific Student Success Information

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as your guide.

Instructional Materials and Resources

Instructional Materials

This course participates in the Houston Community College First Day Program. A discount has been applied to the required digital course materials. The discounted charge has been added to students' tuition and fee bills.

Students will access course materials through a link in Canvas. Instructions for opting out of the HCC First Day Program are also posted in Canvas. Students who opt out will still be responsible for obtaining required course materials.

All instructional materials are uploaded in the course modules. You need to print the materials for each experiment scheduled for the day before coming to class.

Instructional Materials:

1. Lab Manual (Not Required)

CHEM 1111 General Chemistry I 3rd Edition. by HCC Chemistry

Faculty; Blue Door Publishing (2018) ISBN-13: 978-1-68135-811-6

2. A Nonprogrammable scientific Calculator
3. Lab Coat

Course Requirements

Assignments, Exams, and Activities

Assignments, Exams, and Activities

Written Assignment

We will practice lab-based practice problems regularly in class. These practice problems are highly beneficial, indeed essential, to learning chemistry. I recommend that you practice AP chemistry Lab questions based on each lab. There will be quiz after each lab.

Final Exam: All students will be required to take a final lab exam consisting of one assigned lab and lab-based question assignment to complete.

Final lab Exam which is 20% of course grade or a minimum of 200 points on a 1,000 Point scale. In-Class Activities

Participation in completion of Pre-lab exercise, Lab safety, post lab activity or quiz, Cleaning lab stations after the lab. This is your 80% of course grade or a minimum of 800 points on a 1,000 Point Scale.

Grading Formula

Lab Exam 20 points (20%)

Labs 80 points (80%)

Grade	Total Points
A	90+
B	80-89
C	70-79
D	60-69
F	<60

HCC Grading Scale can be found on this site under Academic Information: <http://www.hccs.edu/resources-for/current-students/student-handbook/>

Type	Weight	Topic	Notes
Labs	80%		Students will do total 14 labs. Each lab will have Pre-lab, Experimentation, Lab Report and Post lab Quiz. Pre Lab- 10 Pts Experiment- 50 Pts Lab Report- 20 Pts Post lab Quiz- 20 Pts
Final Exam	20%		It will be Instructor made Exam wherein Students will perform the experiment to solve the given problem and write procedure, data, analysis of data and write the concluded Result. They will also follow the safety needed for that situation.
In-Class Activities			Safety, Cleaning of Lab stations and returning the materials to their proper locations and experimentation. Grade is the part of their Lab grade.
Extra Credit	10		Perfect attendance, Extra help to prepare the lab and cleaning, On Time submission of Lab reports, pre lab and post labs.

Grading Formula

Grading Formula

Lab Exam 20 points (20%)

Labs 80 points (80%)

Grade	Range	Notes
A	90 to 100	
B	80 to 89	
C	70 to 79	
D	60 to 69	
F	Below 60	

* Instructor's Practices and Procedures

Incomplete Policy

Incomplete grade is not allowed unless there is a medical emergency due to which student miss the final Lab Exam. In all cases, the instructor reserves the right to decline a student's request to receive a grade of Incomplete.

Missed Assignments/Make-Up Policy

No makeups" for labs since instructor will drop one lowest lab grade.

Academic Integrity

Academic Integrity

You are expected to be familiar with the University's Policy on Academic Honesty, found in the catalog. What that means is: If you are charged with an offense, pleading ignorance of the rules will not help you. Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Penalties and/or disciplinary proceedings may be initiated by College System officials against a student accused of scholastic dishonesty. "Scholastic dishonesty": includes, but is not limited to, cheating on a test, plagiarism, and collusion. There is a **Zero tolerance** for any type of academic dishonesty

Here's the link to the HCC information about academic integrity (Scholastic Dishonesty and Violation of Academic Scholastic Dishonesty and Grievance):

<https://www.hccs.edu/studentprocedures> (<https://www.hccs.edu/studentprocedures>)

Attendance Procedures

It is highly recommended to attend all the labs. Only one lowest Lab grade will be dropped at the end. Always inform your instructor if you are late or absent for the class due to some unavoidable circumstances.

Student Conduct

Students should conduct themselves as adults. Students are expected to be respectful and cordial to other students.

They should follow the Lab safety rules all the times in the Lab. Unsafe behavior has Zero tolerance and student can be dropped from the class due to any unsafe practice in the Lab.

Instructor's Course-Specific Information

Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

Devices

All phones must be turned off and placed out of site, such as in school bags.

Faculty-Specific Information Regarding Canvas

This course section will use Canvas (<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)) to supplement in-class assignments, exams, and activities.

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

Social Justice Statement

Houston Community College is committed to furthering the cause of social justice in our community and beyond. HCC does not discriminate on the basis of race, color, religion, sex, gender identity and expression, national origin, age, disability, sexual orientation, or veteran status. I fully support that commitment and, as such, will work to maintain a positive learning environment based upon open communication, mutual respect, and non-discrimination. In this course, we share in the creation and maintenance of a positive and safe learning environment. Part of this process includes acknowledging and embracing the differences among us in order to establish and reinforce that each one of us matters. I appreciate your suggestions about how to best maintain this environment of respect. If you experience any type of discrimination, please contact me and/or the Office of Institutional Equity at 713-718-8271.

HCC Policies and Information

HCC Grading System

HCC uses the following standard grading system:

Grade	Grade Interpretation	Grade Points
A	Excellent (90-100)	4
B	Good (80-89)	3
C	Fair (70-79)	2
D	Passing (60-69), except in developmental courses.	1
F	Failing (59 and below)	0
FX	Failing due to non-attendance	0
W	Withdrawn	0
I	Incomplete	0
AUD	Audit	0
IP	In Progress. Given only in certain developmental courses. A student must re-enroll to receive credit.	0
COM	Completed. Given in non-credit and continuing education courses.	0

Link to Policies in Catalog and Student Handbook

Here's the link to the HCC Catalog and Student Handbook: <https://catalog.hccs.edu/> (<https://catalog.hccs.edu/>)

In it you will find information about the following:

- Academic Information
- Academic Support
- Attendance, Repeating Courses, and Withdrawal
- Career Planning and Job Search
- Childcare
- Ability Support Services
- Electronic Devices
- Equal Educational Opportunity
- Financial Aid TV (FATV)
- General Student Complaints
- Grade of FX
- Incomplete Grades
- International Student Services
- Health Awareness
- Libraries/Bookstore
- Police Services & Campus Safety
- Student Life at HCC
- Student Rights and Responsibilities
- Student Services
- Testing
- Transfer Planning
- Veteran Services

Link to HCC Academic Integrity Statement

<https://www.hccs.edu/student-conduct> (<https://www.hccs.edu/student-conduct>) (scroll down to subsections)

Campus Carry Link

Here's the link to the HCC information about Campus Carry:

<https://www.hccs.edu/campuscarry> (<https://www.hccs.edu/campuscarry>).

HCC Email Policy

When communicating via email, HCC requires students to communicate only through the HCC email system to protect your privacy. If you have not activated your HCC student email account, you can go [to HCC Eagle ID \(https://www.hccs.edu/email\)](https://www.hccs.edu/email) and activate it now. You may also use Canvas Inbox to communicate.

Office of Institutional Equity

Use the following link to access the HCC Office of Institutional Equity, Inclusion, and Engagement: <https://www.hccs.edu/eo> (<https://www.hccs.edu/eo>)

Ability Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including long and short term conditions, mental health, chronic or temporary medical conditions), please meet with a campus Abilities Counselor as soon as possible in order to establish reasonable accommodations. Reasonable accommodations are established through an interactive process between you, your instructor(s) and Ability Services. It is the policy and practice of HCC to create inclusive and accessible learning environments consistent with federal and state law. For more information, please go to <https://www.hccs.edu/accessibility> (<https://www.hccs.edu/accessibility>).

Title IX

Houston Community College is committed to cultivating an environment free from inappropriate conduct of a sexual or gender-based nature including sex discrimination, sexual assault, sexual harassment, and sexual violence. Sex discrimination includes all forms of sexual and gender-based misconduct and violates an individual's fundamental rights and personal dignity. Title IX prohibits discrimination on the basis of sex-including pregnancy and parental status in educational programs and activities. If you require an accommodation due to pregnancy please contact an Abilities Services Counselor. The Director of EEO/Compliance is designated as the Title IX Coordinator and Section 504 Coordinator. All inquiries concerning HCC policies, compliance with applicable laws, statutes, and regulations (such as Title VI, Title IX, and Section 504), and complaints may be directed to:

David Cross
Director EEO/Compliance
Office of Institutional Equity & Diversity
3100 Main
(713) 718-8271
Houston, TX 77266-7517 or Institutional.Equity@hccs.edu (<mailto:Institutional.Equity@hccs.edu>)

<https://www.hccs.edu/titleix> (<https://www.hccs.edu/titleix>)

Office of the Dean of Students

Contact the office of the Dean of Students to seek assistance in determining the correct complaint procedure to follow or to identify the appropriate academic dean or supervisor for informal resolution of complaints.

<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>
(<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-complaints/speak-with-the-dean-of-students/>)

Student Success

Expect to spend at least twice as many hours per week outside of class as you do in class studying the course content. Additional time will be required for written assignments. The assignments provided will help you use your study hours wisely. Successful completion of this course requires a combination of the following:

- Reading the textbook
- Attending class in person and/or online
- Completing assignments
- Participating in class activities

There is no short cut for success in this course; it requires reading (and probably re-reading) and studying the material using the course objectives as a guide.

Canvas Learning Management System

Canvas is HCC's Learning Management System (LMS), and can be accessed at the following URL:

<https://eagleonline.hccs.edu> (<https://eagleonline.hccs.edu>)

HCCS Open Lab locations may be used to access the Internet and Canvas. For best performance, Canvas should be used on the current or first previous major release of Chrome, Firefox, Edge, or Safari. Because it's built using web standards, Canvas runs on Windows, Mac, Linux, iOS, Android, or any other device with a modern web browser.

Canvas only requires an operating system that can run the latest compatible web browsers. Your computer operating system should be kept up to date with the latest recommended security updates and upgrades.

HCC Online Information and Policies

Here is the link to information about HCC Online classes, which includes access to the required Online Information Class Preview for all fully online classes: <https://www.hccs.edu/online/> (<https://www.hccs.edu/online/>)

Scoring Rubrics, Sample Assignments, etc.

Look in Canvas for the scoring rubrics for assignments, samples of class assignments, and other information to assist you in the course.

<https://eagleonline.hccs.edu/> (<https://eagleonline.hccs.edu/>)

Instructor and Student Responsibilities

As your Instructor, it is my responsibility to:

- Provide the grading scale and detailed grading formula explaining how student grades are to be derived
- Facilitate an effective learning environment through learner-centered instructional techniques
- Provide a description of any special projects or assignments
- Inform students of policies such as attendance, withdrawal, tardiness, and making up assignments
- Provide the course outline and class calendar that will include a description of any special projects or assignments
- Arrange to meet with individual students during office hours, and before and after class as required

As a student, it is your responsibility to:

- Attend class in person and/or online

- Participate actively by reviewing course material, interacting with classmates, and responding promptly in your communication with me
- Read and comprehend the textbook
- Complete the required assignments and exams
- Ask for help when there is a question or problem
- Keep copies of all paperwork, including this syllabus, handouts, and all assignments
- Be aware of and comply with academic honesty policies in the [HCCS Student Handbook \(https://www.hccs.edu/studenthandbook\)](https://www.hccs.edu/studenthandbook).

Sensitive or Mature Course Content

In this college-level course, we may occasionally discuss sensitive or mature content. All members of the classroom environment, from your instructor to your fellow students, are expected to handle potentially controversial subjects with respect and consideration for one another's varied experiences and values.

EGLS3

The EGLS³ ([Evaluation for Greater Learning Student Survey System \(https://www.hccs.edu/egls3\)](https://www.hccs.edu/egls3)) will be available for most courses near the end of the term until finals start. This brief survey will give invaluable information to your faculty about their teaching. Results are anonymous and will be available to faculty and division chairs after the end of the term. EGLS³ surveys are only available for the Fall and Spring semesters. -EGLS3 surveys are not offered during the Summer semester due to logistical constraints.

[https://www.hccs.edu/egls3 \(https://www.hccs.edu/egls3\)](https://www.hccs.edu/egls3).

Housing and Food Assistance for Students

If you are experiencing any hardship related to food, shelter, mental health, or other basic needs areas, please visit the Basic Needs page for resources ([https://www.hccs.edu/cares \(https://www.hccs.edu/cares\)](https://www.hccs.edu/cares)). You have the option to take the Basic Needs Questionnaire and ask to be contacted by a counselor for additional assistance or support ([https://www.hccs.edu/basicneeds \(https://www.hccs.edu/basicneeds\)](https://www.hccs.edu/basicneeds)). Furthermore, please notify the professor if you are comfortable doing so.

Student Resources

Tutoring

HCC provides free and convenient academic support, in a large variety of subjects, to HCC students in both an online environment and in-person on campus. Tutoring is provided by HCC personnel in order to ensure that it is appropriate. Visit the HCC Tutoring Services website for more information at [https://hccs.edu/tutoring \(https://hccs.edu/tutoring\)](https://hccs.edu/tutoring).

Libraries

The HCC Library System consists of 9 libraries and 6 Electronic Resource Centers (ERCs) that are inviting places to study and collaborate on projects. Librarians are available both at the libraries and online to show you how to locate and use the resources you need. The libraries maintain a large selection of electronic resources as well as collections of books, magazines, newspapers, and audiovisual materials. The portal to all libraries' resources and services is the HCCS library web page at [https://library.hccs.edu \(https://library.hccs.edu/\)](https://library.hccs.edu).

Supplementary Instruction

Supplemental Instruction is an academic enrichment and support program that uses peer-assisted study sessions to improve student retention and success in historically difficult courses. Peer Support is provided by students who have already succeeded in completion of the specified course, and who earned a grade of A or B. Find details at [https://www.hccs.edu/supplemental-instruction \(https://www.hccs.edu/supplemental-instruction\)](https://www.hccs.edu/supplemental-instruction).

Resources for Students:

[https://www.hccs.edu/covid19students \(https://www.hccs.edu/covid19students\)](https://www.hccs.edu/covid19students).

Basic Needs Resources:

[https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/ \(https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/\)](https://www.hccs.edu/support-services/counseling/hcc-cares/basic-needs-resources/).

Student Basic Needs Application:

[https://www.hccs.edu/basicneeds \(https://www.hccs.edu/basicneeds\)](https://www.hccs.edu/basicneeds).

COVID-19

Here's the link to the HCC information about COVID-19:

Instructional Modalities

In-Person (P)

Safe, face-to-face course with scheduled dates and times

Online on a Schedule (WS)

Fully online course with virtual meetings at scheduled dates and times

Online Anytime (WW)

Traditional online course without scheduled meetings

Hybrid (H)

Course that meets safely 50% face-to-face and 50% virtually

Hybrid Lab (HL)

Lab class that meets safely 50% face-to-face and 50% virtually

Copyright Statement

In order to uphold the integrity of the academic environment and protect and foster a cohesive learning environment for all, HCC prohibits unauthorized use of course materials. Materials shared in this course are based on my professional knowledge and experience and are presented in an educational context for the students in the course. Authorized use of course materials is limited to personal study or educational uses. Material should not be shared, distributed, or sold outside the course without permission. Students are also explicitly forbidden in all circumstances from plagiarizing or appropriating course materials. This includes but is not limited to publically posting quizzes, essays, or other materials. This prohibition extends not only during this course, but after. Sharing of the materials in any context will be a violation of the HCC Student Code of Conduct and may subject the student to discipline, as well as any applicable civil or criminal liability. Consequences for unauthorized sharing, plagiarizing, or other methods of academic dishonesty may range from a 0 on the specified assignment and/or up to expulsion from Houston Community College. Questions about this policy may be directed to me or to the Manager of Student Conduct and Academic Integrity.

Unauthorized Disclosure

"Unauthorized disclosure" occurs when any student provides instructional materials and/or assessments to other students in violation of a clear prohibition by the instructor. Examples include: posting assessment items to online sites such as Chegg or CourseHero; asking exam questions in forums like Reddit or Yahoo Answers; discussions of confidential question using Wechat or GroupMe, etc.

Course Calendar

Course Calendar

Date	Lab
01/25/23	Lab Safety, Quiz
02/01/23	Exp.1- Basic Lab Techniques.
02/08/23	- Lab # 2 (Separation of the components of the mixture)
02/15/23	Lab # 3 (Determination of formula of a hydrate)
02/22/23	Lab # 4 Limiting Reagent

03/01/23	Lab # 5 Double Displacement Reactions
03/08/23	Lab # 6 Single Displacement Reactions and activity series
03/15/23	Holiday
03/22/23	Lab # 7 (Acid base Titration)
03/29/23	Lab # 8 (Molar Mass of a volatile compound)
04/05/23	Lab # 9 (Thermochemistry).
04/12/23	Lab # 10 (Lewis dot structures)),
04/19/23	Lab # 10 (VSEPR)
04/26/23	Lab #11 & 12 - % yield
05/03/23	Lab # 13 & 14- Electronic Configuration and IMF
05/10/23	Final Exam

Syllabus Modifications

The instructor reserves the right to modify the syllabus at any time during the semester and will promptly notify students in writing, typically by e-mail, of any such changes.

Additional Information

Departmental/Program Information

Please visit the chemistry program page for more about our degree offering, requirements, employment prospects and more.

<https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/chemistry/>
[\(https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/chemistry/\)](https://www.hccs.edu/programs/areas-of-study/science-technology-engineering--math/chemistry/)

Process for Expressing Concerns about the Course

If you have concerns about any aspect of this course, please reach out to your instructor for assistance first. If your instructor is not able to assist you, then you may wish to contact the Department Chair.

Dr. Grace Zoorob, hcc.chemistry@hccs.edu; 713-718-5776

