



General Chemistry II-10580

CHEM-1412

RT 2022 Section 65 4 Credits 01/18/2022 to 05/15/2022 Modified 02/16/2022

Course Meetings

Course Modality

In Person

Meeting Days

Tue - Thr

Meeting Times

11.00 am to 1.50pm

Meeting Location

Tue: Northline Campus Rm 236

Thr: Northline Campus Rm 322 (Lab)

Welcome and Instructor Information

Faculty: Dr Claudio Carra

Email: claudio.carra@hccs.edu

Office: 713 718 2432

What's Exciting About This Course

This course is a continuation of CHEM 1411. It 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.

In this course you will learn about the ability of salt to de-ice our roadways, determining the concentration of unknown solutions, metal plating and creating batteries and using the speed of reactions or the energy associated with reactions to predict their viability.

My Personal Welcome

Welcome to General Chemistry II – I'm glad that you have chosen this course. Chemistry is everywhere, and we are chemistry. The understanding of the general principle will allow you to see the world in a better perspective and develop a more advanced critical sense which can be used in other subjects as well. The most efficient way to reach me is by my HCC email. My goal is for you to successfully complete this class walk out of the course with a better understanding of the chemistry around us. So please visit me or contact me whenever you have a question.

Preferred Method of Contact

by Email via canvas

Office Hours

Monday, Tuesday, Wednesday, Thursday, 9:30 AM to 10:45 AM

Course Overview

Course Description

This course 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.

Continuation of CHEM 1411 (1311/1111). Topics include solutions, chemical kinetics, equilibrium and equilibrium phenomena in aqueous solution, acids and bases, pH, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry, and biochemistry. This course satisfies the Life and Physical Sciences or Component Area Option of the HCC core.

Requisites

This course requires college-level reading and writing skills. Research indicates that you are most likely to succeed if you have already taken prerequisites to the course. They are **CHEM 1411 or CHEM 1311 and 1111; must be placed into college-level reading (or take GUST 0342 as a co-requisite) and be placed into MATH 0312 (or higher) and be placed into college-level writing (or take ENGL 0310/0349 as a co-requisite).**

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/>

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

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. In the lecture portion of the course, students will meet this objective via required/optional readings of the textbook and class notes as well as practice exercises geared towards mastery of content.
- **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. Students will also have opportunities to ask questions and express ideas with the instructor while listening to lecture topics and engaging in meaningful discussion.
- **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. Students will demonstrate understanding of chemical concepts through studying chemical theory and calculations and solving both conceptual and mathematical problems. As the course is comprehensive, content will build on itself and 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 and lecture content. A course LMS is also utilized.

Student Learning Outcomes and Objectives

Program Student Learning Outcomes (PSLOs) for all CHEM Courses

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

Course Student Learning Outcomes (CSLOs) for CHEM 1412

SLO 1. Distinguish between the different ways of measuring concentrations of solutions, and relate concentration to the colligative properties of solutions.

SLO 2. Determine and analyze the rates of chemical reactions.

SLO 3. Write equilibrium constant expressions for chemical reactions and calculate the value of the equilibrium constant and the concentration of reactants and products at equilibrium.

SLO 4. Demonstrate proficiency in acid-base and solubility product calculations.

SLO 5. Express the three laws of thermodynamics and interrelate the enthalpy, free energy and equilibrium constant for the reaction.

SLO 6. Based on the principles of oxidation and reduction, balance oxidation-reduction reactions, calculate cell potentials of voltaic cells based on oxidation-reduction reactions, and make quantitative calculations based on electrolysis.

SLO 7. Identify modes of radioactive decay, balance nuclear reactions, calculate energy changes associated with nuclear reactions, and relate quantities of radioactive elements with time based on the kinetics of nuclear processes.

SLO 8. Classify, name, and draw the structure of basic organic compounds.

Learning Objectives for each CSLO can be found at [Learning Objectives for CHEM 1412](#).

Departmental Practices and Procedures

This course is lecture and lab combined course. A comprehensive final exam for the lecture component is required.

Department Specific 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

The [HCC Online Bookstore \(https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks\)](https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks) provides searchable information on textbooks for all courses. Check with your instructor before purchasing textbooks because the book might be included in your course fees.

1. Brown, LeMay Jr, Bersten, Murphy, Woodward, Stoltzfus. (2018). *Chemistry: The Central Science*, 14th, Pearson, MN; ISBN 9781323849996 or 9781323850206. The texts are included in a package that also contain an access code and are found at the [HCC Bookstore](#). You may either use a hard copy of the book, or rent the e-book from Pearson. Order your book here: [HCC Bookstore](#)
2. A Nonprogrammable scientific calculator
3. CHEM 1412 Lab Manual, Course: CHEM 1412; ISBN-13: 978-0-136-68827-3
4. Lab coat mandatory

Temporary Free Access to E-Book

Here is the link to get temporary free access to a digital version of the text for fourteen days:

Logon to [Canvas](#)

- Click "MyLab and Mastering"
- Click "Open MyLab & Mastering"
- Accept License Agreement
- Enter Pearson log-in credentials or create a new account
- Click "Get temporary access without payment for 14 days" near the bottom of the page
- Follow on-screen instructions from here.

Other Instructional Resources

Courseware

Extra credit html/javascript codes are available in Canvas in the Module session.

They are highly recommended for an optimal understanding for the study material.

Course Requirements

Assignments, Exams, and Activities

Type	Weight	Topic	Notes
Online Assignments	5 %	Mastering Chemistry	The assignments include a series of Quizzes and Home Tests, intended as test review. Additional exercises, Homework, is designed to view problem in a more unusual textbook setting, with more concrete examples.
Exams	40 %	Exams 1, 2, and 3	The first Exam is on chapters 15, 14, and 15. The second Exam is on chapters 16, and 17. The third Exam is on chapters 19, 20, 21, and 24. The periodic table will be available, but formula sheet will not be provided. Equally balanced, and no dropping grade rule.
Final Exam	30 %	all program	It is comprehensive on all the program. The formula sheet and periodic table will be provided.
Lab Reports	25 %	Lab Experiments	<p>Word document templates will be available in Canvas under the session Assignments. A 5% score reduction will be applied to each day delay. Everything has to be typed, no scan allowed. The file will have to be uploaded (blue button) under each Assignment session, not attached, to be considered. The data can be shared if the work is done in group, but the narrative has to be individual. A plagiarism check will be performed with the use of turning.com.</p> <p>Pre Lab Reports: A paragraph summarizing the experimental procedure, answers of pre lab questions.</p> <p>POST Lab reports: The instructions are in the template word file for each experiments. In general, summary of procedure, discussion, highlighting consistency between theory and experiments, and data have to be presented. Excel will be used for data analysis and curve fitting. Extra credit will be available if the results are in within 5% error.</p> <p>Each lab absence will result in 10 points reduction on the final grade The student has to contact the instructor to schedule a make up to have the penalty voided.</p>
Extra Credit	+ 1 pt	active participation	The student has to present a relevant and insightful question during the lecture, or a problem/exercise with a partial developed solution.
Extra credit	+ 1 pt	Class notes/Summary	<p>The class summary has to be written down on a copy book, or tablet, by hand, no word documents. At least 7 pages from each chapter. Make sure to add some examples, pictures, formulas, and chemical reactions. You will receive 1 pt for each chapter.</p> <p>No point will given after the following deadlines:</p> <p>Chapters 13, 14, and 15 due before the date of Exam 1;</p> <p>Chapters 16, and 17 due before the date of Exam 2;</p> <p>Chapters 19, 20, 21, and 24 due before the date of Exam 3;</p> <p>The class notes/summary have to be shown on appointment via zoom/webex or in person possible before or after class.</p>
Extra Credit	+ 6 pt	Extra credit Homework	The assignment is on Canvas under Module, Please copy paste , don't crop or screen shot, into a word file the extra homework. Each problem has to be done 5 times with a new set of random values for a total of about 200 problems. All exercises must be done, no partial credit, all or nothing!

Grading Formula

Grade	Range	Notes
A	90 - 100	To obtain A as a final grade, the student has to have reached a minimum of 90% of score and passed at least two Exams.
B	80 - 89	
C	70 - 79	
D	60 - 69	

Grade	Range	Notes
F	< 60	

* Instructor's Practices and Procedures

Incomplete Policy

An incomplete assignments will receive a grade 0.

Missed Assignments/Make-Up Policy

Makeups are allowed only in the event of extreme emergency accompanied by appropriate documentation. If possible, inform me of any conflicts with your schedule ahead of due dates. In the event of unavoidable conflicts, a makeup exam may be scheduled prior to the scheduled exam date.

Academic Integrity

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/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>
(<https://www.hccs.edu/about-hcc/procedures/student-rights-policies--procedures/student-procedures/>)

Attendance Procedures

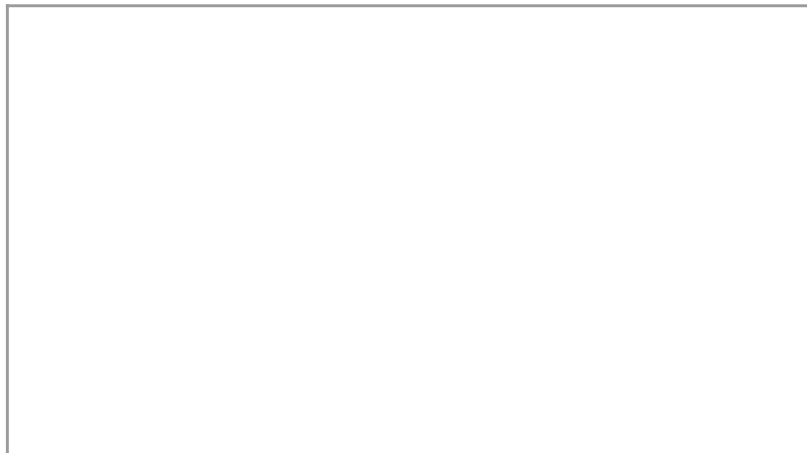
The attendance is required, in particular for the Labs, where 3 absences will force a withdraw from the class.

Student Conduct

As your instructor and as a student in this class, it is our shared responsibility to develop and maintain a positive learning environment for everyone. I take this responsibility very seriously and will inform members of the class if their behavior makes it difficult for him/her to carry out this task. As a fellow learner, you are asked to respect the learning needs of your classmates and assist me to achieve this critical goal. Please refer to the HCC policy on Netiquette in the [Student Handbook](#) located under the Student Code of Conduct.

Instructor's Course-Specific Information

Lockdown Browser with Monitoring, web cam, will be used to proctor the test. It is required that the student shows a complete panoramic video showing a environment free by anything not authorized. A photo ID is required. No calculator or any electronic devices are allowed. The calculator and periodic table will be embedded in Lockdown Browser. Also the student cannot look extensively in other direction other than the screen. Any violation from this protocol, may invalidate the test and a grade 0 may be assigned.



Lockdown Browser notifies if there are internet issues or slow connections. It is a student responsibility to find, in the online setting, the optimal study environment that allows an suitable internet connections.

Devices

Use of recording devices, including camera phones and tape recorders, is **prohibited** during the tests, laboratories, faculty offices, and other locations where instruction, tutoring, or testing occurs. Students with disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for information regarding reasonable accommodations. Please see refer to the Student Code of Conduct in the [Student handbook](#).

Faculty Statement about Student Success

As with any three-hour course, expect to spend *at least six hours per week* outside of class reading and studying the material. I will provide assignments to help you use those six hours per week wisely. Additional time will be required for written assignments. Successful completion of this course requires a combination of reading the textbook, completing assignments in Eagle Online, and participating in class discussions. There is no short cut for success in this course; it requires reading, solving problems and studying the material using the course objectives as your guide.

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

Grade	Grade Interpretation	Grade Points
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
- disAbility 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/eoo> (<https://www.hccs.edu/eoo>)

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>)

Housing and Food Assistance for Students

Any student who faces challenges securing their foods or housing and believes this may affect their performance in the course is urged to contact the Dean of Students at their college for support. Furthermore, please notify the professor if you are comfortable in doing so.

This will enable HCC to provide any resources that HCC may possess.

Student Resources

Tutoring

HCC provides free, confidential, and convenient academic support, including writing critiques, to HCC students in an online environment and on campus. Tutoring is provided by HCC personnel in order to ensure that it is contextual and appropriate. Visit the [HCC Tutoring Services \(https://www.hccs.edu/tutoring\)](https://www.hccs.edu/tutoring) website for services provided.

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/>).

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>)

Resources for Students:

<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/>)

Student Basic Needs Application:

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

COVID-19

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

<https://www.hccs.edu/covid-19> (<https://www.hccs.edu/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.

Course Calendar

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.

The class schedule may be subjected to changes. In case, the student will be notified by email 2 days before

1,18,2022	No class		
1,20,2022	intro, chapter 13	Laboratory	In Person
1,25,2022	review, chapter 13	Lecture	Online
1,27,2022	Lab 1	Laboratory	In Person
2,01,2022	chapter 14	Lecture	Online
2,03,2022	Lab 2	Laboratory	In Person
2,08,2022	Review chapter 14	Lecture	Online
2,10,2022	Lab 3	Laboratory	In Person
2,15,2022	chapter 15	Lecture	In Person

2,17,2022	Lab 4	Laboratory	In Person
2,22,2022	Exam 1 on chapters 13, 14, and 15	Lecture	Online
2,24,2022	Lab 5	Laboratory	In Person
3,01,2022	chapter 16	Lecture	In Person
3,03,2022	Lab 6	Laboratory	In Person
3,08,2022	chapter 16	Lecture	In Person
3,10,2022	Lab 7	Laboratory	In Person
3,15,2022	Spring break	no class	
3,17,2022	Spring break	no class	
3,22,2022	chapter 17	Lecture	In Person
3,24,2022	Lab 8	Laboratory	In Person
3,29,2022	Review chapter 17	Lecture	In Person
3,31,2022	Lab 9	Laboratory	In Person
4,05,2022	Exam 2 on chapters 16 and 17	Lecture	Online
4,07,2022	Lab 10	Laboratory	In Person
4,12,2022	chapter 19	Lecture	In Person
4,14,2022	Lab 11	Laboratory	In Person
4,19,2022	chapter 20	Lecture	In Person
4,21,2022	chapter 20 review	Laboratory	In Person
4,26,2022	chapter 21, 24	Lecture	In Person
4,28,2022	review	Laboratory	In Person
5,03,2022	Exam 3 on chapters 19, 20, 21, 24	Lecture	Online
5,05,2022	final review	Lecture	Online
5,10,2022	Final test		Online
5,12,2022	no class		

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