



Division of Natural Sciences and Horticulture

Department of Chemistry

<http://learning.hccs.edu/programs/chemistry>

CHEM 1111: Chemistry I | Laboratory | #10353

Fall 2020 | 16 Weeks (8.27.2021-12.12.2021)

Online | Webex | F 8:00 a.m.-10:50 a.m.

1-hour lecture course | 48 hours per semester

Instructor Contact Information

Instructor: Onyemechi Opara, Pharm.D.

HCC Email: o.amunekeopara@hccs.edu

Please feel free to contact me concerning any problems that you are experiencing in this course. Your performance in my class is very important to me. I am available to hear your concerns and just to discuss course topics. I will respond to emails within 48 hours Monday through Friday; I will reply to weekend messages on Monday mornings/afternoons. Your HCC Email address is required as the preferred method of contact, should you contact me, please use your HCC Student Email address.

This is a Synchronous Online Class (on line on a schedule). Students will meet with the instructor during class time online (Canvas Media Gallery in Kaltura Live Lounge/WebEx) for lecture, lab, discussion, and testing. Further instructions available in the Canvas Course Shell

What's Exciting about This Course

General Chemistry 1 Laboratory (CHEM 1111) is a Laboratory course related to the study of atomic structure, chemical reactions, thermodynamics, electronic configuration, chemical bonding, molecular structure, gases, states of matter, and properties of solutions. CHEM 1111 is a Core Curriculum Course. This course is intended to reinforce the concepts learned in General Chemistry 1 class through scientific investigations in the Chemistry Lab. Students will be able to develop modern lab techniques, develop scientific thinking and intellectual abilities, apply data analysis and develop teamwork skills.

My Personal Welcome

Welcome to General Chemistry 1 Laboratory— I'm delighted that you have chosen this course. One of my passions in this laboratory course is when students actually get a chance to see the physical manifestation of topics taught in lecture.

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 HCC email. The best way to really discuss issues is in person and I'm available during posted office hours to tackle any questions you might have.

My goal is for you to walk out of the course with a better understanding of how you can use chemistry concepts and chemical principles in real-life. So please visit me or contact me whenever you have a question.

Prerequisites and/or Co-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. The Math component may not be an official prerequisite, but it will be very helpful in your success as this course does have very similar math components to chemistry courses (CHEM 1311) that require Math 0312.

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

Eagle Online Canvas Learning Management System

This course will use [Eagle Online Canvas \(https://eagleonline.hccs.edu\)](https://eagleonline.hccs.edu) to supplement in-class assignments, exams, and activities. It is the responsibility of the student to log onto Eagle Online on a regular basis to check for announcements, access course materials, and check email.

It is highly recommended to download instructional materials well in advance in the case of technical issues so that you are always prepared for class.

HCCS Open Lab locations may be used to access the Internet and Eagle Online Canvas or use your own personal computer. It is recommended that you **USE [FIREFOX](#) OR [CHROME](#) AS YOUR BROWSER.**

Here are the Canvas requirements and aids from HCC Online technical support website <https://www.hccs.edu/online/technical-support/>:

Canvas Browser Requirements:

- Canvas recommends the use of the latest version of any web browser. It's important to update your web browser regularly.
- Pop-ups must be enabled. Disable your pop-up blockers.
- Javascript must be enabled
- Cookies must be enabled
- Install the most commonly used internet plugins and keep them updated

Eagle Online (Canvas) Video Introduction:

[Part One of the Canvas Training for Students](#) follows the online training version found in Canvas. Topics covered include overview, settings, announcements, and notifications.

[Part Two of the Canvas Training for Students](#) follows the online training version found in Canvas. Topics covered include modules, discussions, assignments, and grades.

Eagle Online (Canvas) Student Guide:

For information about navigating your online course and using Canvas' tools, see the [Canvas Student Guide](#)

Canvas Guides FAQs:

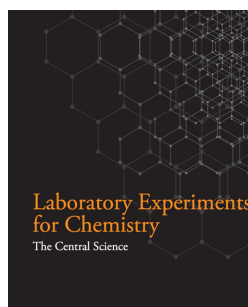
- [How Do I Compose a Message?](#)
- [How Do I Find My Unread Messages?](#)
- [How Do I Set My Notification Preferences?](#)
- [How Do I Add a Text Contact Method in Canvas?](#)
- [How Do I Submit an Online Assignment?](#)
- [How Do I Upload a File to My Assignment Submission?](#)
- [How Do I Reply to a Discussion Topic?](#)
- [How Do I Take a Quiz or Exam?](#)

Instructional Materials(Required)

Textbook Information

Available at [HCC Bookstore](#)

<https://hccs.bncollege.com/shop/hccs-central/page/find-textbooks>



1. *Laboratory Experiments for Chemistry: The Central Science*, Pearson Publishing. ISBN-13: 978-0-136-68805-1
2. Labcoat
3. A basic model scientific calculator: TI -30X. No smart watches or phone calculator allowed.



LockDown Browser + Webcam Requirement

This course requires the use of LockDown Browser and a webcam for online exams. The webcam can be the type that is built into your computer or one that plugs in with a USB cable.

Watch this brief video to get a basic understanding of LockDown browser and the webcam feature.

<https://www.respondus.com/products/lockdown-browser/student-movie.shtml>

Download Instructions

Download and install LockDown Browser from this link:

<https://download.respondus.com/lockdown/download.php?id=355612798>

Once Installed

- Start LockDown Browser
- Log into to Canvas
- Navigate to the quiz

Note: You won't be able to access a quiz that requires LockDown Browser with a standard web browser. If this is tried, an error message will indicate that the test requires the use of LockDown Browser. Simply start LockDown Browser and navigate back to the exam to continue.

Guidelines

When taking an online quiz, follow these guidelines:

- **Ensure you're in a location where you won't be interrupted-Do not talk during the exam**
- Turn off all other devices (e.g. tablets, phones, second computers) and place them outside of your reach
- **Before starting the test, know how much time is available for it, and also that you've allotted sufficient time to complete it**
 - **Clear your desk or workspace of all external materials not permitted – You are only allowed a periodic table, formula sheet, blank scratch paper, a writing utensil, and a calculator.**
 - **Remain at your computer for the duration of the test**

- If the computer, Wi-Fi, or location is different than what was used previously with the "Webcam Check" and "System & Network Check" in LockDown Browser, run the checks again prior to the exam
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims
 - Ensure your computer or device is on a firm surface (a desk or table). Do NOT have the computer on your lap, a bed, or other surface where the device (or you) are likely to move
 - If using a built-in webcam, avoid readjusting the tilt of the screen after the webcam setup is complete
 - Take the exam in a well-lit room, but avoid backlighting (such as sitting with your back to a window)
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted

Getting Help

Several resources are available if you encounter problems with LockDown Browser:

- The Windows and Mac versions of LockDown Browser have a "Help Center" button located on the toolbar. Use the "System & Network Check" to troubleshoot issues. If an exam requires you to use a webcam, also run the "Webcam Check" from this area
- Respondus has a Knowledge Base available from support.respondus.com. Select the "Knowledge Base" link and then select "Respondus LockDown Browser" as the product. If your problem is with a webcam, select "Respondus Monitor" as your product
- If you're still unable to resolve a technical issue with LockDown Browser, go to support.respondus.com and select "Submit a Ticket". Provide detailed information about your problem and what steps you have taken to resolve the problem.

Tutoring

HCC provides free, confidential, and convenient academic support 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](#) website for details.

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 <http://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 <http://www.hccs.edu/resources-for/current-students/supplemental-instruction/>.

Course Overview for CHEM 1111

Selected laboratory experiments related to topics in CHEM 1311 (General Chemistry I) for science majors.

Program Student Learning Outcomes (PSLOs):

1. Demonstrate basic mastery of chemistry by writing formula and equations for chemical reactions, performing chemical calculations and recognizing the application of chemistry in our daily lives
2. Demonstrate a mastery of introductory and intermediate level chemistry to promote success in higher level chemistry and other science programs in four year universities
3. Demonstrate a mastery of General and Organic Chemistry in preparation for allied and professional health programs and engineering
4. Conduct laboratory experiments by making measurements, performing chemical reactions and analyzing the results in a group or individual setting

Course Student Learning Outcomes (SLO)

1. Give names and formulas of elements, ions, and ionic and molecular compounds.
2. Categorize, complete, and balance chemical reactions.
3. Do chemistry calculations involving reaction stoichiometry and energy changes.
4. Relate the properties of electromagnetic radiation (frequency, wavelength, and energy) to each other and to the energy changes atoms undergo which accompany electronic transitions.
5. Identify the parts of the periodic table and the trends in periodic properties of atoms.
6. 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.
7. 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.
8. Calculate density and relate the value to mass and volume measurements for all physical states.
9. Measurements and conversions in Metric, SI, and American systems
10. Apply thermochemical principles to evaluate work, heat, and energy relationships based on specific heat, calorimetry, and temperature changes.

Course Student Learning Objectives (CSLOs):

SLO 1. Give names and formulas of elements, ions, and ionic and molecular compounds.

- 1.1 Given the name, identify the formula and charge of positive and negative ions, and vice-versa.
- 1.2 Given the name, write the formula of ionic compounds, binary molecular compounds, and acids. Given the formulas of these types of compounds, name them.

SLO 2. Categorize, complete, and balance chemical reactions.

- 2.1 Identify given reactions as combination, decomposition, single displacement, and double displacement.
- 2.2 Starting with the reactants, complete the reaction by writing the reaction products.

2.3 Given the reactants and products, balance the equation for the reaction.

SLO 3. Do chemistry calculations involving reaction stoichiometry and energy changes.

3.1 Convert amounts in units of mass or volume to moles, and vice-versa.

3.2 Given the amount of one substance in a reaction, calculate the amount of the other substances that react and form.

3.3 Identify the limiting reactant and excess reactant in a reaction where more than one reactant amount is given.

3.4 Determine the amount of the excess reactant that remains as unreacted excess.

3.5 Calculate energy changes associated with chemical reactions using Hess's law, standard enthalpies of formation, or calorimetry.

SLO 4. Relate the properties of electromagnetic radiation (frequency, wavelength, and energy) to each other and to the energy changes atoms undergo which accompany electronic transitions.

4.1 Relate frequency, wavelength, and the speed of electromagnetic radiation.

4.2 From the frequency or wavelength of electromagnetic radiation, calculate its energy.

4.3 Relate the energy change in the hydrogen atom to its electronic transitions using the Bohr model.

4.4 Identify and relate the four quantum numbers that can be associated with electrons.

4.5 Write the electronic configurations of atoms and ions, including the box diagram method.

SLO 5. Identify the parts of the periodic table and the trends in periodic properties of atoms.

5.1 Identify the common regions of the periodic table. Identify by name selected groups of elements in the periodic table.

5.2 Using the periodic table, identify the trend (increasing or decreasing in value) of selected properties of atoms such as atomic radius, ionization energy, and electron affinity.

5.3 Identify reaction similarities of elements within the same group in the periodic table.

SLO 6. 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.

6.1 Relate and calculate the pressure, volume, temperature, or amount of gas using Boyle's law, Charles' law, Gay-Lussac's law, Avogadro's law, the combined gas law, and the ideal gas law.

6.2 Perform stoichiometry calculations which involve gaseous substances.

6.3 Use Dalton's law and Graham's law to perform calculations involving gaseous mixtures and effusion and diffusion of gases.

6.4 Explain the assumptions of the kinetic-molecular theory of gases.

SLO 7. 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.

7.1 Draw the Lewis dot structure of molecules containing two or more atoms.

7.2 Based on the dot structure of the molecule, determine its electron domain geometry and molecular geometry based on VSEPR theory.

7.3 Given the dot structure, identify the hybridization of and geometry about each atom.

7.4 Explain the nature of sigma and pi bonding using hybrid atomic orbitals.

SLO 8: Calculate density and relate the value to mass and volume measurements for all physical states.

8.1 Given either mass, volume, or density, be able to calculate an unknown variable through use of the density

equation.

8.2 Appreciate the utility of density as an intensive and physical property as an identification tool.

SLO 9: Measurements and conversions in Metric, SI, and American systems

9.1 Convert and assess temperatures in three scales of measurement: Celsius, Fahrenheit, and Kelvin.

9.2 Convert measurements of mass, volume, length between established units of official International (SI), Metric, and American systems.

SLO 10: Apply thermochemical principles to evaluate work, heat, and energy relationships based on specific heat, calorimetry, and temperature changes.

10.1 Calculate heat based on mass, specific heat or heat capacity, and temperature change.

10.2 Understand the transfer of heat as it applies to a system and its surroundings, including calorimeters, by calculating one variable in an equation when presented with others including heat, mass, specific heat or heat capacity, and initial and final temperatures.

10.3 Define the meaning of work as it relates to energy in all forms: heat, potential and kinetic.

10.4 Apply the Law of Conservation of Energy as it pertains to energy exchange in thermochemical reactions.

10.5 Convert between SI and American units of heat.

SCANS and/or Core Curriculum Competencies:

Reading, Writing, Speaking/Listening, Critical Thinking, Computer/Information Literacy

Methods of Instruction:

Hands on Experiment with Chemicals and Instruments.

Core Curriculum Student Learning Outcomes (CCLOs)

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

- Reading/ Writing
- Speaking/Listening
- Critical Thinking
- Computer/Information Literacy

Program Student Learning Outcomes (PSLOs) for all CHEM Courses

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

Student Success

Expect to spend **at least three (3) hours per week** outside of class working on pre and post lab questions. Successful completion of this course requires a combination of

- Reading the textbook,
- Attending class in person and/or online
- Completing assignments
- Submitting them in Canvas Eagle Online,
- 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.

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 during Chemistry laboratory sessions
- 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 lab class, it is the student's responsibility to:

- Attend laboratory sessions and participate in activities
- Read and comprehend the textbook
- Complete the required laboratory assignments/reports 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](#)

Academic Integrity

Students are responsible for conducting themselves with honor and integrity in fulfilling course requirements. Disciplinary proceedings may be initiated by the college system against a student accused of scholastic dishonesty. Penalties may include a grade of "F" on the particular assignment, failure in the course, academic probation, or even dismissal from the college. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. In this class, the penalty for willful cheating on exams is a grade of F in the course. This is the standard policy of the Sciences Department.

Grading

The lab reports, including the pre- and post- lab questions, are graded on the basis of completeness, neatness, consistent decimal digits in measurements, reasonableness or accuracy and the correctness of the calculations tied to the experimental results.

Assigned lab reports including Pre and Post Laboratory: 80%
Exams: 20%

100% of total course grade

The following grade distribution scale will determine your course grade:

90 - 100 %	A
80 - 89 %	B
70 - 79 %	C
60 - 69 %	D
59 % AND BELOW	F

FINAL GRADE OF FX: Students who stop attending class and do not withdraw themselves prior to the withdrawal deadline may either be dropped by their professor for excessive absences or be assigned the final grade of "FX" at the end of the semester. Students who stop attending classes will receive a grade of "FX", compared to an earned grade of "F" which is due to poor performance.

Students who receive financial aid but fail to attend class will be reported to the Department of Education and may have to pay back their aid. A grade of "FX" is treated exactly the same as a grade of "F" in terms of GPA, probation, suspension, and satisfactory academic progress

HCC Grading Scale can be found on this site under Academic Information:

<http://www.hccs.edu/resources-for/current-students/student-handbook/>

Student Work

All assignments and tests submitted to your instructor shall be performed solely by you. You will not submit work that is plagiarized or that otherwise violates copyright laws of the United States of America. If you have been found guilty of academic misconduct by your college of enrollment disciplinary action may result in banning you from the course and/or future enrollment at Houston Community College. Actions contrary to academic integrity will NOT be tolerated. Activities that have the effect or intention of interfering with learning or fair evaluation of a student's work or performance are considered a breach of academic integrity.

Examples of such unacceptable activities include, but are not limited to:

- Cheating - intentionally using or attempting to use unauthorized material, assistance or study aids in any academic work. i.e Copying from another

student's work.

- Plagiarism - representing another's ideas, words, expressions or data in writing or presentation

without giving proper credit, failing to cite a reference or failing to use proper documentation, using works of another gained over the Internet and submitted as one's own work.

- Falsification and/or Misrepresentation of Data - submitting contrived or made-up information in any academic exercise.
- Facilitating Academic Dishonesty - knowingly helping or attempting to help another violate any provision of the academic integrity policy.
- Multiple Submission - submitting, without prior approval from the instructor, any work submitted to fulfill academic requirements in another class.
- Unfair Advantage - trying to gain unauthorized advantage over fellow students.

Laboratory Policy

On the first day of lab a safety video will be shown (about 35 min long). Lab safety will also be reviewed before the first lab is performed. Lab safety quiz will also be given before the first lab. Each student will then sign a statement affirming his or her commitment to following safe procedures in the laboratory, and turn in the form to the instructor. Be especially aware of the need for adequate eye protection and proper clothing in the laboratory. Other requirements are as follows:

- Attendance to all labs is expected
- Every student should arrive in the lab on time and prepared
- Students are required to read through the experiment and complete the pre-lab assignment in order to be able to participate and be prepared for each experiment
- Pre-labs for each lab session will be viewed by instructor at the beginning of class.
- Lab report form must be completed INDIVIDUALLY even though students work in groups; any evidence of copied work from another student will result in a grade of zero
- If a student does not complete the prelab assignment, the student will receive a 20pts deduction for the laboratory grade
- In every lab section, there will be point deduction for tardiness, early departure without finishing the lab or instructor's approval signature, safety violations, and not following directions and cleaning up the lab benches and hoods.

***Lab rules:**

1. Safety goggles and lab coats must be worn at all times during the laboratory period
2. No food or drinks allowed in the lab
3. Open-toed shoes and/or shorts should not be worn in the lab
4. Lab experiments are performed within groups of 3 lab partners. If 2 or more partners is absent, talk with me first about performing your lab experiment. Each person turns in required data sheets and questions separately. If you are absent from lab, you cannot write lab report for that.
5. Lab-reports are due on the following day of the individual experiment completed, unless announced otherwise by the instructor. 5% points will be deducted for lab report score turned in late for each day.

Any student may be removed immediately from the classroom or lab for safety reasons. If the instructor considers a student's behavior, attitude, or speech unsafe for that student or other students or if the instructor considers a situation unsafe, students may be dismissed from that environment.

Student Success in CHEM 1111 and Laboratory Reports

CHEM 1111 will introduce students to the methods, apparatus, software and instruments used in chemistry laboratory, and (2) train students safely and properly handling chemicals throughout the semester via various experiments.

There will be (2) online exam

Each lab report must be done individually even though students work in groups. All labs are worth 100 points. Laboratory exercises MUST be performed to receive full points for the laboratory report.

Report Form (where experimental results recorded) is graded based on neatness, proper significant digits in measurements, reasonableness, or accuracy. General principles, problems, fundamental laws, and theories are discussed in Introduction/Theory section of each experiment. Course content provides a foundation for work in advanced chemistry and related sciences.

CHEM 1111 requires conceptual understanding and application, the experiments in this course are designed to reinforce the concepts learned in CHEM 1311. If you do not have pre-requisite CHEM 1311 or take CHEM 1311 as co-requisite, you are taking this class at your own risk or subject to mandatory withdrawal.

Make-up Policy

Make-up labs will not normally be given, unless in certain circumstances per discretion of the instructor.

Interaction and Participation Policy

You will respect the classroom environment. You will not intentionally obstruct, disrupt or interfere with the teaching and learning that occurs in the classroom. You will not engage in any activity that demeans any student, instructor, or administrator. Such activities include, but are not limited to, oral and written communication that is ethnically derogatory, sexist, or racist in nature; unwanted sexual advances or intimidation; profane communication in any manner.

Use of Camera and/or Recording Devices

All phones, cameras, IPADS, IPODS and other electronic devices MUST be turned off when you enter the laboratory. No electronic devices can be used in the laboratory/teaching environment unless you have received permission from the instructor. Video recording, audio recording and/or taking pictures of any part of the lab is PROHIBITED. If students choose to use laptops or tablets (or other electronic device with Wi-Fi, cellular or communication capabilities) they should be for classroom- related purposes ONLY upon obtaining prior permission from the instructor. Students with learning disabilities who need to use a recording device as a reasonable accommodation should contact the Office for Students with Disabilities for Information regarding reasonable disabilities.

Other requirements for the laboratory sessions

You should be especially aware of the need for adequate eye protection in the laboratory. Protective glasses or goggles must be worn at all times during the laboratory period. Any student not wearing protective glasses or goggles after the experiment has begun may be given a zero for that experiment and excused for the laboratory meeting!

It is suggested that you purchase your own safety glasses or goggles:



A lab jacket must be purchased: Generic Lab Coat Price
\$ 15.00-20.00

Email Procedures

I check my email frequently and strive for a less than 48-hour response time to your messages, but please exercise patience. In order to manage the great many emails I receive from students, I am asking that you include the following information in each email:

1. Identify the course number and course title.
2. Identify yourself stating your full name as you registered for this course.
3. Identify the assignment and date due or the subject of your message/question.

Course Calendar

Week & Dates	Experiment	Due Date
Week #1 08/27	Introduction, Syllabus Review, Safety Video, Safety quiz	9/10
Week #2 09/03	Experiment 1: Basic Lab Technique	9/09
Week #3 09/10	Experiment 2: Separation of the Components of a Mixture Official Day of Record: September 09/08/2020	09/16
Week #4 09/17	Experiment 3: Identification of Substances by Physical Properties	09/23
Week #5 09/24	Experiment 4: Chemical Formulas	09/30
Week #6 10/01	Experiment 5: Moles and Chemical Formulas	10/07
Week #7 10/08	Experiment 8: Activity Series	10/14
Week # 8 10/15	Experiment 11: Behavior of Gases: Molar Mass a Vapor	10/21

Week #9 10/22	Experiment 7: Chemical Reactions of Copper and Percent Yield	10/28
Week #10 10/29	Experiment 10: Acid Base Titration Last Day to Withdraw: 10/30/2020	11/04
Week #11 11/05	Experiment 9: Reactions in Aqueous Solutions: Metathesis Reactions and Net Ionic Equations	11/11
Week #12 11/12	Experiment 12: Heat of Neutralization	11/18
Week #13 11/19		
Week #14 11/26	Thanksgiving Holiday – No School	
Week #15 12/3	Experiment 13: Molecular Geometries of Covalent Molecules	12/9
Week #16 12/10	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.

Other Course Information

Chemistry Program Information

Please visit the chemistry program page for more about our degree offering, requirements, employment prospects and more. <http://learning.hccs.edu/programs/chemistry>

Add program-specific information such as the following:

- Chemistry Majors
- Careers in chemistry
- HCC chemistry student organizations
- Chemistry Scholarships

HCC Policies

Here's the link to the HCC Student Handbook <http://www.hccs.edu/resources-for/current-students/student-handbook/> In it you will find information about the following:

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

EGLS³

The EGLS³ ([Evaluation for Greater Learning Student Survey System](http://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/)) will be [available for most courses near the end of the term until finals start.](http://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/) 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.

<http://www.hccs.edu/resources-for/current-students/egls3-evaluate-your-professors/>

Campus Carry Link

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

<http://www.hccs.edu/departments/police/campus-carry/>

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 and activate it now.](#) You may also use Canvas Inbox to communicate.

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.

Office of Institutional Equity

Use the link below to access the HCC Office of Institutional Equity, Inclusion, and Engagement

(<http://www.hccs.edu/departments/institutional-equity/>)

disAbility Services

HCC strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including 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

<http://www.hccs.edu/support-services/disability-services/>

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

<http://www.hccs.edu/departments/institutional-equity/title-ix-know-your-rights/>

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/>

Department Chair Contact Information*Chemistry Department Chair*

If you have questions or concerns about the course, please see your instructor. Should you wish to contact the department chair, below is his information:

Dr. Grace Zoorob, <http://grace.zoorob@hccs.edu> 713-718-2501