This class is taught on a Eagle OnLine (EOL) format. It is highly recommended that you have a high speed internet connection such as cable or DSL. If you are not familiar with EOL, you can find help at the following website: http://smartipantz.perceptis.com/hccs/Content/showcontent.aspx?id=154&typ
Start by clicking on “Introduction to the Eagle Online Course” and then any of the other subject material. For help with online classes click on the following link.
http://www.hccs.edu/portal/site/hccs/menuitem.5fc1e5d66248062f3227a2cede07401ca/?vgnextoid=abd24cc6a366f110VgnVCM2000001b4710acRCRD&vgnextfmt=default

Email address: Bindu.Chakravarty@hccs.edu


Lab Book: In the book store The laboratory experiments for this course will be conducted on selected Tuesdays in Chem lab at NORTHLINE CAMPUS. The laboratory component of this course is essential. No student will be allowed to complete this course with a passing grade without satisfactorily completing all laboratory assignments. This means that attendance at laboratory sessions is...
Course Intent: To teach basic concepts of Chemistry for engineering, Science, premed, and nursing students. Topics include Elements, Measurements, Quantitative calculations, Gas Laws, Formulae of Compounds, Thermochemistry, Electronic Structure of Atoms to name a few.

1. **Course Withdraw policy:** It is the responsibility of the student to withdraw from course if one needs to. Follow the following guidelines. Official drop date is April 1st. After this date you will be given the grade you have earned in the semester.

HCC Course Withdrawal Policy -

Beginning Fall 2007, the State of Texas imposes penalties on students who drop courses excessively. Students are limited to no more than SIX total course withdrawals throughout their educational career at a Texas public college or university.

To help you avoid having to drop/withdraw from any class, contact your DE professor regarding your academic performance. You may also want to contact your DE counselor to learn about helpful HCC resources (e.g. online tutoring, child care, financial aid, job placement, etc.). HCC has instituted an Early Alert process by which your professor may “alert” you and DE counselors that you might fail a class because of excessive absences and/or poor academic performance.

- Students should check HCC’s Academic Calendar by Term for drop/withdrawal dates and deadlines.
- If a student decides to drop or withdraw from a class upon careful review of other options, the student can drop online prior to the deadline through their HCC Student Service Center: https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCd=ENG

Classes of other duration (mini-term, flex-entry, 8-weeks, etc.) may have different final withdrawal deadlines. Please contact the HCC Registrar’s Office at 713.718.8500 to determine mini-term class withdrawal deadlines.

**DISABILITY SUPPORT SERVICES (DSS):**
Any student with a documented disability (e.g., physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office.

Any student with a documented disability who needs to arrange reasonable accommodations, please contact the appropriate disability support service at the beginning of each semester. Faculty is authorized to provide only the
accommodations requested by the Disability support Services office for numbers, please see HCCS 2005/2006 Fall/Spring class schedule. Or inform me in first week of class. Students have to understand the module for Web CT adoption and resources provided by the publisher of the textbook.

DE STUDENT SERVICES

The Distance Education Student Handbook contains policies and procedures unique to the DE student. It is the student's responsibility to be familiar with the handbook's contents and part of the mandatory orientation. The handbook contains valuable information, answers, and resources, such as DE contacts, policies and procedures (how to drop, attendance requirements, etc.), student services (ADA, financial aid, degree planning, etc.), course information, testing procedures, technical support, and academic calendars. Refer to the DE Student Handbook by visiting this link: http://de.hccs.edu/de/de-student-handbook

e-mail: Communication with your online course professor is important. Disagreements or complaints must be addressed first with your professor. For other grievance procedures, consult the HCC Student Handbook.

All e-mail communications with the instructor in this class must be made within the EOLe-mail system using the student’s HCC e-mail address. The instructor may not respond to private student e-mails.

Eagle ONLine Student User ID
Your EOL login user ID will be your HCC User ID (sometimes referred to as the “W” number). All HCC students have a unique User ID. If you do not know your User ID you can look it up by visiting the HCC home page: From www.hccs.edu, under the column “CONNECT”, click on the “Student System Sign In” link Then click on “Retrieve User ID” and follow the instructions. Or use the direct link to access the Student Sign In page: https://hccsaweb.hccs.edu:8080/psp/csprd/?cmd=login&languageCd=ENG The default student password is “distance.” Students will then be prompted to change their password after their first login. Please visit the DE Technical Support website if you need additional assistance with your login.

Student Handbook

STUDENT POLICIES AND PROCEDURES
The Distance Education Student Handbook contains policies and procedures
unique to the DE student. Students should have reviewed the handbook as part of the mandatory orientation. It is the student’s responsibility to be familiar with the handbook’s contents. The handbook contains valuable information, answers, and resources, such as DE contacts, policies and procedures (how to drop, attendance requirements, etc.), student services (ADA, financial aid, degree planning, etc.), course information, testing procedures, technical support, and academic calendars. Refer to the DE Student Handbook by visiting this link: http://de.hccs.edu/de/de-student-handbook

Special Note Regarding this Syllabus:
The instructor reserves the right to change the dates or contents covered in this syllabus.
Students will be notified of all changes in writing or by way of verbal announcement to the entire class prior to the change.

Course Content and Exam Schedule:
We will cover 11 chapters in a sixteen week period. There will be four semester exams. All exams will be of 2 hour and will be online. There will be a mandatory comprehensive System Final in person at the end of the semester. We will perform 10 experiments. You are required to read *1 the labs before coming to lab and write *2 a prelab. Prelab for the lab will consist of review questions in the HCCS lab manual. Refer to the page numbers. We will discuss the labs and You may be asked to answer the questions verbally *3,4

Chapter 1: Chemistry: The study of Change

Chapter 2: Atoms, Molecules & Ions

Chapter 3: Mass relationship in Chemical Reactions

Chapter 4: Reactions in Aqueous Reactions and Solutions

Chapter 5: Gases

Chapter 6: Thermo chemistry

Chapter 7: Quantum Theory and Electronic Structure of Atom

Chapter 8: Periodic Relationships among Elements

Chapter 9: Chemical Bonding I: Basic Concepts

Chapter 10: Chemical Bonding II: Molecular geometry and Hybridization

Chapter 11: Intermolecular Forces - liquids & Solids Section 11.1 - 11.8
### Tentative Lab and Exam Schedule: Dates are subject to change. Check email for any change

<table>
<thead>
<tr>
<th>Lab and Review Sessions</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>1 Orientation</td>
<td>January 14</td>
</tr>
<tr>
<td>Laboratory Safety</td>
<td></td>
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<tr>
<td>Experiment 1 - Measuring Techniques and Calculations</td>
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<tr>
<td>2 Lab 2 Separation of mixture</td>
<td>January 21</td>
</tr>
<tr>
<td>3 Lab 5 Empirical Formula of an Oxide</td>
<td>January 28</td>
</tr>
<tr>
<td>Lab 6 Formula of a Hydrate and Percentage of Water of Hydration</td>
<td>February 4</td>
</tr>
<tr>
<td><strong>Review Exam 1</strong></td>
<td></td>
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</tbody>
</table>
| 4 Exam 1 Ch 1-3 Online                                                                   | **February 8th-9th 6 AM –**
|                                                                                        | **February 9th 11 PM**         |
| 5 Lab 8 Reactions in Aqueous Solution - Single and Double Displacement Reactions         | February 11                    |
| 6 Lab 9 Reactivity of Metals - Activity Series                                           | February 18                    |
| 7 Lab 11 Heat of Acid-Base Neutralization                                               | February 25                    |
| **Review exam 2**                                                                       | March 4                        |
| 10 Exam 2 Ch 4-6                                                                         | **March 8th 6 AM – March 9th** |
|                                                                                        | **11 PM**                      |
| 11 Spring Break                                                                          | March 10-16                    |
| Electron Configuration paper lab provided not in book( to be done at home)             | April 2                        |
| Review Exam 3                                                                           |                                |
| 12 Exam 3 Ch 7-8                                                                         | April 3rd                      |
|                                                                                        | 6 AM-April 4th                 |
|                                                                                        | 11PM                           |
| 13 The VSEPR Theory of Molecular Geometry of Covalent Molecules ( to be completed at    | April 9th                      |
| home or in your group in library no lab meeting)                                        |                                |
| 14 Identification of Substances by Physical Properties                                  | April 22                       |
| 15 Review Exam 4                                                                         | April 22                       |
| 16 Exam 4 Ch 9-11                                                                        | April 26th                     |
|                                                                                        | 6 AM-April 27th                |
|                                                                                        | 11 PM                          |
| 17 REVIEW FINAL EXAM                                                                     | April 29th                     |
| 18 FINAL EXAM IN PERSON 11 AM RM 322                                                     | May 6th                        |

**Testing procedures, technical support, and academic calendars. Refer to the DE Student**
MANDATORY RULES AND REGULATIONS

1. Lab attendance, in person on Tuesdays at 11AM on time, is required. If you are late you will not be allowed to do the lab. NO EXCEPTIONS TO RULE. Make sure to sign in when you come to lab. If you do not sign in you will be marked absent and will receive a zero. Prior to first class any material needed has to be printed. If you do not have the required material YOU WILL NOT BE ALLOWED IN LAB. Purchase all material needed in the first week.

2. You will be dropped for 2 absences in lab If you miss the first and or second labs that are held on Tuesday at 11AM in rm 322 at North line campus, you will be dropped from the course. Only a major incident with full documentation will be accepted.

3. If you have any concerns please explain clearly in a respectful and mature manner. If you send a rude or mean spirited email to me you will be dropped from the class immediately and the department chair will be notified.

4. Never send communication on Eagle online to my class without including me. Your
questions and inquiries must come to me in eagle on line or at bindu.chakravarthy@hccs.edu, not to class members because you get false and inaccurate information.

5. No makeup exams or labs.
6) Lab grade is based upon pre lab, quiz, lab performance, lab participation and written lab report. You must read the lab prior to coming to lab. A quiz may be given before the lab. *1,2.
7) A written lab report must be submitted in a folder. **No** loose sheets of papers will be accepted. **Each person has to submit a written lab report.**

You must answer all prelab questions to get full credit.
8) If you miss a lab, you get a zero for that lab.
9) 5 points will be deducted for late lab reports.
10) Safety glasses to be worn at the time of wet labs.
11) **Cheating will not be tolerated. If cheating is suspected an automatic F will be given.**

12) Coming to lab on time and Timely submission of required items is very important. **MAKE SURE TO LOOK AT THE SUBMISSION TIMES VERY CAREFULLY.**

13) **If you have any kind of disability, please inform me in the first week of class. I need an official paper clearly stating your disability.**

10. March 31st is last day to officially withdraw from course. **If you need to withdraw from the course to avoid an unwanted grade. After the official withdraw date a grade will be assigned based on the performance in the course.**

11) You can communicate with me via email at the above address or call 713-718-2431

**Grading:** Final grade is based on the following formula.
Exam 1, 2, 3, 4 = 55% One of the lowest score will be dropped.
Final = 20%
Labs = 25%
Self-assessments are for practice and may give you some bonus points as seen fit if completed in time.
For example complete 1, 2, 3 before first exam.

90% and above - A
80% -89% - B
70% -79% - C
60% - 69% - D
Below 60% - F

This course fulfills the following competencies. They are marked as follow.

1. Reading
2. Writing
3. Speaking
4. Listening
5. Critical thinking
6. Computer Literacy

HAPPY LEARNING!!!!