

HOUSTON COMMUNITY COLLEGE SYSTEM SPRING BRANCH PHYSICAL SCIENCE DEPARTMENT

GENERAL CHEMISTRY I (1411) Class schedule: Fall 2012, CRN 23633

Class schedule. Fail 2012, Chiv		25055
Tuesday:	5:30-9:30 PM	Room 522 (Lab)
Thursday:	5:30-9:30 PM	Room 517 (Lecture)

This course fulfills the following core intellectual competencies: <sup>1</sup>Reading (Textbook and Laboratory Protocols); <sup>2</sup>Writing (Laboratory Reports); <sup>3</sup>Speaking (Laboratory Work Groups); <sup>4</sup>Listening (Lecture); <sup>5</sup>Critical thinking (Lab Data Analysis and lecture tests); <sup>6</sup>Computer literacy (computer assisted and computer simulated labs).

(1) Dr. Mohammad S. Ali Telephone: 713-745-4666 Email: mohammad.ali@mdanderson.org
(2) The HCC-Northwest Learning College Site is at <u>http://learning.nwc.hccs.edu/</u>
Select Courses using the top tab.
Then select chemistry.
Then select chemistry.
Then Select either CHEM 1411.
Sample tests for this course will be under CHEM 1411.
Sample Final Exam is under CHEM 1411.

(1) Text Books:

- Chem 1411, General Chemistry I. MacGraw-Hill.
- You may elect to use the previous text as a reference.
- Catalyst, Lab Manual for CHEM 1411 and CHEM 1412.
- (2) Course Grading System:

The overall score is based on the following:

Three regular exams	55%
Laboratory	20%
Final	25%
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The course grade

-	100	Α
-	<b>89</b>	В
-	79	С
-	69	D
	-	- 100 - 89 - 79 - 69

< 60 F

- (A) Lab.
- 90% of the lab grade will come from graded lab reports.
  - Each lab report will worth a specified number of points. Lab reports should be completed individually.
  - Pre-lab tests may be given prior to the start of the lab. These tests will be short and worth only one-two points. The pre-lab test points will be included in the lab report grade. You must be present to take the pre-lab test.
- (B) Lecture
- (C) No lecture points.

Quiz will be conducted at the end of each chapter. 25 % of the quiz average will be added to the lowest of the three exam grades.

3 tests: 300 total points	A (90-100%) =450-500 total points
Final exam: 100 total points	B (80-89%) =400-449 total points
Lab Grade: 100 points	C (70-79%) =350-399 total points
Max course points = 500 total	D (60-69%) =300-349 total points
	F (0-59%) =000-299 total points

(D) The final exam is a HCCS system final exam and is required. The final exam grade will not be dropped.

- (3) Honesty:
  - Please be aware that the HCC rules regarding cheating will be enforced. Anyone caught cheating either will receive a grade of zero or be dropped from the course.
- (4) Makeup Tests/Labs:
  - Makeup tests will NOT be scheduled. In case of emergency or on Medical grounds it will be conducted within a week for test 1 or 2.
  - Due to the large number of wet labs, makeup labs might not be possible. Don't miss a lab.
- (5) ADA Requirements:
  - The Houston Community College System obeys all ADA requirements.
  - If you need assistance, either contact me or Dr. Nancy Russell at 713-718-5708. Dr. Russell is the director of the ADA center at HCC-NW.
- (6) Exams Schedule

Late Submission	n of Labs.	One time	10 Points Less	
Test 1	October	17	Chapters 1-3	Time 2:30 hours
Test 2	November	15	Chapters 4-6	Time 2:30 hours
Instruction end	s December	09	Chapters 7-10	Time 2:30 hours
Test 3	December	11		
Final Exam	December	13	Comprehensive	Time 2:30 hours

## (7) <u>Class and Lab Schedule</u>

Sept. 25 Tu.	Course Introduction Lab Safety Video Chapter 1. The Study of Changes
27 Th.	Chapter 1. The Study of Changes (Contd) Chapter 2. Atoms, Molecules, and Ions
Oct. 02 Tu.	Quiz on Chapter 1. Chapter 2, Atoms, Molecules, and Ions (Contd.) Experiment 1: Basic Laboratory Techniques
04 Th.	Quiz on Chapter 2. Chapter 3. Mass Relationship in Chemical Reactions
09 Tu.	Experiment 2: Separation of Components of a Mixture Chapter 3, Mass Relationship in Chemical Reactions (Contd.)
11 Th.	Quiz on Chapter 3. Chapter 4. Reactions in Aqueous Solutions
15 Tu.	Chapter 4. Reactions in Aqueous Solutions (Contd.) Experiment 3: Identification of Substances by Physical Properties
17 Th.	Test 1 (Chapters 1-3) Chapter 5. Gases
23 Tu.	Quiz on Chapter 4. Chapter 5, Gases (Contd.) Experiment 4: Formula and composition of Hydrates
25 Th.	Chapter 5. Gases (Contd.) Chapter. Thermochemistry
30 Tu.	Experiment 5: Reactions in Aqueous Solutions: Quiz on Chapter 5. Chapter 6. Thermochemistry (Contd.)
Nov. 01 Th.	Chapter 6. Thermochemistry (Contd.)
06 Tu.	Experiment 6: Activity Series Chapter 6. Thermochemistry (Contd.)
08 Th	Quiz on Chapter 6. Chapter 7. Quantum Theory & Electronic Structures of Atoms
13 Tu.	Chapter 7. Quantum Theory & Electronic Structures of Atoms (Contd.) Experiment 7: Behavior of Gases: Molar Mass of a Vapor
15 Th.	Test II (Chapters 4-6) Chapter 7. Quantum Theory & Electronic Structures of Atoms (Contd.)
20 Tu.	Quiz on Chapter 7. Chapter 8. Periodic Relationships among the Elements Experiment 8: Heat of Neutralization

27 Tu.	Chapter 8. Periodic Relationships among the Elements (Contd.) Chapter 9, Chemical Bonding 1. Basic Concepts
29 Th.	Quiz on Chapter 8. Chapter 9, Chemical Bonding 1. Basic Concepts (Contd.)
Dec. 04 Tu.	Quiz on Chapter 9. Chapter 10. Chemical Bonding 2. Molecular Geometry & Hybridization of Atomic Orbitals
06 Th.	Quiz on Chapter 10 Chapter 11. Inter Molecular Forces & Liquids & Solids Experiment 9: Molecular Geometry of the Molecules
11 Tu.	Test III (Chapters 7-10)
13 Th.	FINAL EXAM. REMEMBER THAT THIS WILL BE A SYSTEM FINAL EXAM.

(COMPREHENSIVE, CHAPTERS 1-11).