University of North Texas at Dallas
Fall 2011
SYLLABUS

CHEM 1410: General Chemistry 3Hrs

Department of	Health and Life Sciences	Division of	Liberal Arts and Sciences

Instructor Name:	Dr. Donna Hamilton
Office Location:	DAL2 250
Office Phone:	972-338-1522
Email Address:	Donna.hamilton@untdallas.edu
Office Hours:	**MW 10-11:30; TR 8:30-9:30**
Virtual Office Hours:	N/A
Classroom Location:	DAL 240
Class Meeting Days & Times:	**TR 5:30-6:50 pm**
Course Catalog Description:	Fundamental concepts, states of matter, periodic table, chemical structure and bonding, stoichiometry, oxidation and reduction, solutions and compounds of representative elements.
Prerequisites:	Math 1100 D or equivalent
Co-requisites:	CHEM 1410 D 290 Recitation
Required Text:	*Principles of Chemistry: The Molecular Science*; Brooks/Cole
Recommended Text and References:	**N/A**
Access to Learning Resources:	UNT Dallas Library: phone: (972) 338-1616; web: http://www.untdallas.edu/our-campus/library UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com

Course Goals or Overview:

To give students a foundation in scientific thought and process while developing an understanding of fundamental concepts in chemistry, states of matter, periodic table, chemical structure and bonding, stoichiometry, oxidation and reduction, solutions and compounds of representative elements.

Learning Objectives/Outcomes: At the end of this course, the student will

1	Be able to perform calculations related to chemistry.
2	Distinguish between pure substances (elements and compounds) and mixtures (heterogeneous vs. homogenous).
3	Be able to name ionic and covalent compounds.
4	Demonstrate knowledge of molecular shapes; polarity; and oxidation-reduction reactions.
5	Demonstrate understanding of acid-base reactions; precipitation reactions and be able to write net ionic equations for each.
6	Be able to determine the amount of heat required by or given off by chemical and physical processes.
2	Develop skills in scientific reasoning and experimental design.
3	Develop skills in scientific writing.
4	Practice and demonstrate competence of Common Core Objectives including critical thinking skills, communication skills, empirical and quantitative skills and teamwork

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class.

TOPICS	TIMELINE	Other deadlines
Chapter 1: The Nature of Chemistry	Week of 8/25/14	
Chapter 2: Atoms and Elements	Week of 9/1/14	HW 1
Chapter 3: Chemical Compounds	Week of 9/8/14	HW 2
Test 1	Week of 9/15/14	HW 3
Chapter 4: Quantities of Reactants and Products	Week of 9/22/14	CIN written
Chapter 5: Chemical Reactions	Week of 9/29/14	HW 4
Chapter 6: Energy and Chemical Reactions	Week of 10/6/14	HW 5
Test 2	Week of 10/13/14	HW 6
Chapter 7: Electron Configurations	Week of 10/20/14	JAR
Chapter 8: Covalent Bonding	Week of 10/27/14	HW 7
Chapter 9: Molecular Structures	Week of 11/3/14	HW 8
Test 3	Week of 11/10/14	HW 9
Chapter 10: Gases and the Atmosphere	Week of 11/17/14	CIN oral
Chapter 11: Liquids, Solids and Materials	Week of 11/24/14	HW 10
Chapter 12: Chemical Kinetics	Week of 12/1/14	HW 11
Test 4	Week of 12/6/14	HW 12

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Exams

Chapter Homework – *assigned problems from the Scientific Skills sections*

Journal Article Reviews – *a synthetic summary and review of a recently published journal article following the guidelines provided in the grading rubric.*

Chemistry in the News– *a synthetic review of a recent news article relating to the study of chemistry (in writing) following the provided rubric.*

Chemistry in the News Presentation- *a synthetic review of a recent news article relating to the study of chemistry (as a group presentation) following the provided rubric*

Class Participation – *daily attendance and participation in class discussions*

Grading Matrix:

Instrument	Value (points or percentages)	Total
Exams	4 exams @ 100 pts ea	400
Chapter Homework	13 @ 10 pts ea	120
Chemistry in the News written	25 pts ea	20
Journal Article Review	50 pts ea	50
CIN Group Presentation	50 pts ea	60
Attendance/Participation	15 @ 10 pts ea	150
Total:		**800**

Grade Determination:

A = 800 – 720 pts; i.e. 90% or better
B = 719 – 640 pts; i.e. 80 – 89 %
C = 639 -- 560 pts; i.e. 70 – 79 %
D = 559 – 480 pts; i.e. 60 – 69 %
F = 479 pts or below; i.e. less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):
The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit the Student Life Office, Suite 200, Building 2 or call Laura Smith at 972-780-3632.

Student Evaluation of Teaching Effectiveness Policy:
The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my course and I consider the SETE to be an important part of your participation in this class.

Assignment Policy:
All assignment are due at the start of class with no partial credit given for late submission. Unless otherwise indicated, all assignments are due in hard copy and may not be emailed for credit. The only extra credit points given are for the 4 provided case studies.

Exam Policy:
Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook).

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

Bad Weather Policy:
On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.unt.edu/dallas. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class during an excused absence. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Students are expected to arrive on time for class and roll at the designated time. Being tardy or absent will affect the points earned for attendance and thus your overall grade.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

General Behavior:
Students are expected to conduct themselves in a professional and appropriate manner. You should expect to be silent when others are speaking, give your full attention to the professor or speaker, and refrain from reading newspapers or other distracting materials during class time.

Tobacco products of any kind are not permitted in the classroom.

Cell phones should always be on silent during class time.

Laptops and tablets may be approved for use in class for note taking on a provisional case-by-case basis.

Food is not permitted in the classroom although drinks are allowed as long as they are in a closed lid container.
-