

University of North Texas at Dallas
Fall 2014
SYLLABUS

Course Abbreviation/Number/Title/Semester Hrs CHEM 1360D.390: <u>Context of Chemistry Laboratory</u> 0 Hrs	
Department of Life and Health Sciences Division of Liberal Arts and Life Sciences	
Instructor Name:	Dr. Irene T. Rodriguez
Office Location:	Founders Hall 253
Office Phone:	972-338-1525
Email Address:	irene.rodriquez@untdallas.edu
Office Hours:	Tuesday and Thursday: 9:00 - 10:00 am; or by appointment
Classroom Location:	FH 247
Class Meeting Days & Times:	Thursday 1:00 - 2:50 pm
Course Catalog Description:	3 hours. (3;2) Fundamentals of chemistry for students who are not science majors. Applications of chemistry to its role in the world. Topics include historical and philosophical development of modern chemistry, the environment, energy, industrial and economic development, modern materials, popular perspectives of chemistry. Includes laboratory. May not be counted toward a major or minor in chemistry. <i>May be used to satisfy a portion of the Natural Sciences requirement of the University Core Curriculum.</i>
Co-requisites:	CHEM 1360 Lecture
Required Text:	Pearson Custom Library, University of North Texas at Dallas, Context of Chemistry, CHEM 1360D. Only available in the UNT Dallas bookstore.
Access to Learning Resources:	UNT Dallas Library: phone: (972) 780-3625; web: http://www.unt.edu/unt-dallas/library.htm UNT Dallas Bookstore: phone: (972) 780-3652; e-mail: 1012mgr@fheg.follett.com
Course Goals or Overview:	
	The goal of this course is for students to obtain hands-on experience with chemistry that affects their daily life.

UNT'S Core Curriculum Student Learning Outcomes

As a result of their experience with the core curriculum, UNT Dallas graduates will:

- explore English, the arts and humanities, math, the natural sciences, and social and behavioral sciences.
- be able to locate, evaluate and organize information including the use of information technologies.
- think critically and creatively, learning to apply different systems of analysis.
- develop problem solving skills that incorporate multiple viewpoints and differing contexts in their analysis.
- cultivate intellectual curiosity and self-responsibility, building a foundation for life-long learning.
- engage with a variety of others in thoughtful and well-crafted communication.
- broaden and refine their thinking as a part of the give and take of ideas, seeking to better understand other's perspectives as well as their own.

These learning outcomes will be assessed through specific assignments given during the semester. These include:

- A biographical essay on a famous chemist.
- A presentation based on the essay above; audience participation will also be evaluated.
- Pre-lab questions.
- Data analysis of the lab results.

CHEM 1360 Learning Objectives/Outcomes: At the end of this course, the student will

1	Demonstrate the ability to report observations obtained during experiments.
2	Be familiar with and able to safely use basic chemistry lab equipment.
3	Develop a better understanding of the world around them.

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor during a previous lab session or on Blackboard.

TOPIC/EXPERIMENT	TIMELINE	PRE-LAB POINTS	REPORT POINTS	SAFETY POINTS
- NO LAB -	Aug 28	-	-	-
Syllabus/Safety	Sep 4	10	-	5
Density Layers	Sep 11	10	85	5
Atoms and Light	Sep 18	10	85	5
Solubility	Sep 25	10	85	5
Nature's Indicators	Oct 2	10	85	5
Buffers	Oct 9	10	85	5
Synthesis of Esters	Oct 16	10	85	5
Saponification	Oct 23	10	85	5
Personal Products	Oct 30	10	85	5
Fats and Iodine Number	Nov 6	10	85	5
Carbohydrates	Nov 13	10	85	5
Presentation	Nov 20	-	85	-
- NO LAB - Thanksgiving Holiday	Nov 27	-	-	-
- NO LAB – Pre-finals / finals	Dec 4 / Dec 11	-	-	-
	Points	110	935	55
			Total	1100

Course Evaluation Methods

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

Pre Lab Questions – each experiment has a group of Pre-lab questions that will be discussed at the beginning of lab. These will be checked **at the beginning of** lab and graded based on effort. The grading scale will be on a 0-10 scale using the following rubric:

0 = no work done

6 = 2 or more questions with blank answers or “I don’t know”

8 = one blank answer or “I don’t know”

10 = all questions attempted

Students are encouraged to research the questions before the lab session (Google is your friend).

Report Sheet – During each experiment, you will record observations in the “Report Sheets” provided in your text. These “Report Sheets” also have calculations to perform and additional questions about the topic. Once an experiment is completed, reports will be **due the week after experiment completion**. The grading scale will be on a 0-10 scale.

Lab Safety – Working safely in the lab is more important than any grade. However, as a reminder of this you will be evaluated during each experiment on how safely you work. **The grading scale will be 0-5, with a starting score of 5.** Points will be deducted if safety instructions are not followed (e.g. not wearing eye protection), or a lab area and materials are left dirty.

Intentional safety violations (e.g. pulling the safety shower without a need) will result in failure of the entire lab portion of the course.

Grading Matrix:

Instrument	Total
Pre-Lab Questions	10%
Report Sheets & Presentation	85%
Lab Safety	5%

Grade Determination:

Separate letter grades will not be assigned for the lab. The lab is worth 25% of the total grade of the course CHEM 1360. This is a large component of your course grade and should be an opportunity to improve your grade, rather than harm it.

Note: The lab is worth 25% of your final overall grade for the course. However, you must receive a passing grade (60% or higher) in the laboratory to receive a passing grade in the class.

Students must pass both the lecture and the lab independently to pass the course (i.e. if you fail the lab, you automatically fail the entire course and if you fail the lecture, you automatically fail the entire course).

* If you ever have a question your grades, please come by my office. I will gladly help you.

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). Any student requesting academic accommodations based on a disability is required to register with Disability Services each semester. A letter of verification for approved accommodations can be obtained from this office. Please be sure the letter is delivered to me as early in the semester as possible. Disability Services is located in the Student Life Office in DAL2, Suite 200 and is open 8:30 a.m. – 5:00 pm, Monday through Friday. The phone number is (972) 338-1775.

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 teaching. I consider the SETE to be an important part of your participation in this class.

Assignment Policy

Assignments are intended to reinforce material covered in lecture, and prepare you for the exams. Collaborative efforts on completing the assignments are encouraged so long as all member of the collaboration contribute equally. As with all other graded assessments, cheating will not be tolerated. While collaborations are encouraged, each student must submit their own work, which cannot be identical to the work submitted by the other members of the collaboration. Assignments should be turned in on time. Late assignments will be graded, but with a penalty of 10% each day it is late.

Exam Policy

Exams should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). Any student caught cheating will automatically receive a 0 on the exam, and the instructor may pursue further disciplinary action. After the first exam is turned in, no more exams will be distributed to students that arrive late to the exam period.

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%20Integrity.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 Campus 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. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Diversity/Tolerance Policy

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive and 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 that violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate.

Use of Electronic Gadgets in the Classroom

You are allowed to take notes using laptops/iPads/other electronic devices. You are allowed to record the lectures. The instructor reserves the right to ask you to discontinue use of an electronic device if it becomes disruptive to others in the classroom.

Food/Drink Policy

No food or drinks are allowed in the classroom or the laboratory.