

University of North Texas at Dallas
Fall 2016
SYLLABUS

CHEM 1360: Context of Chemistry Lecture and Laboratory		3 Hrs
Department of	Life and Health Sciences	Division of
		Liberal Arts and Sciences
Instructor Name:	Dr. Muhammed Yousufuddin	
Office Location:	DAL2 252	
Office Phone:	972-338-1528	
Email Address:	myousuf@untdallas.edu	
Office Hours:	T (9-10 am, 2-4 pm), W (3:30-5:30 pm), and Th (9-10 am)	
Classroom Location:	Lecture-Online, Lab-DAL2 247	
Class Meeting Days & Times:	Lecture-Online, Lab-Thursdays from 1-3 pm	
Course Catalog Description:	Fundamentals of Chemistry for students who are not science majors. Topics include historical and philosophical development of chemistry, the environment, energy, industrial and economic development, modern materials and popular perspectives in chemistry.	
Prerequisites:	None (but must also enroll in CHEM 1360 Section 301, Laboratory)	
Recommended Text:	Chemistry for Changing Times, Hill, McCreary, and Kolb, 13th Ed.	
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 goals of this course are as follows -		
	Students will develop a basic understanding of chemistry; evaluate scientific writing and how scientific laws and theories are used; expand their quantitative problem solving skills and examine how science and chemistry affect everyday life.	
Learning Objectives/Outcomes: At the end of this course, students will be able to:		
1	Be able to perform basic calculations related to chemistry.	
2	Demonstrate understanding of molecular shapes and polarity; oxidation and reduction reactions; and acid base reactions.	
3	Develop a better understanding of the worlds of atoms and molecules and how chemistry relates to everyday life.	
4	Practice and demonstrate competence of Common Core Objectives including critical thinking skills, communication skills, empirical and quantitative skills and teamwork	
5	Demonstrate the ability to understand and report observations during experiments	

Hybrid Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Blackboard announcement. All lecture materials will be online.

TOPICS	Week of	Deadines
Chapter 1: Chemistry	8/22/16	HW 1 due 8/28, Student Intro due 8/25
Chapter 2: Atoms	8/29/16	HW 2 due 9/4
Chapter 3: Atomic Structure	9/5/16	HW 3 due 9/11, Discussion 1 due 9/15
Exam 1 Famous Chemist Essay	9/12/16	complete by 9/16 Essay due 9/18
Chapter 4: Chemical Bonds	9/19/16	HW 4 due 9/25, Discussion 2 due 9/29
Chapter 6: Gases, Liquids and Solids	9/26/16	HW 6 due 10/2, Discussion 3 due 10/6
Chapter 7: Acids and Bases	10/3/16	HW 7 due 10/9
Exam 2	10/10/16	complete by 10/14
Chapter 8: Oxidation and Reduction	10/17/16	HW 8 due 10/23
Chapter 9: Organic Chemistry	10/24/16	HW 9 due 10/30
Chapter 10: Polymers	10/31/16	HW 11 due 11/6
Exam 3	11/7/16	complete by 11/11 , Discussion 4 due 10/20
Chapter 15: Energy Chemistry in the New Presentation	11/14/16	HW 15 due 11/20 Present on 11/17
Chapter 16: Biochemistry	11/21/16	HW 16 due 11/27
Chapter 19: Fitness and Health	11/28/16	HW 19 due 12/4
Exam 4	12/5/16	complete by 12/9

Laboratory Schedule

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. Labs meet on Thursdays from 1-3 pm in DAL2 247

EXPERIMENT	TIMELINE	PRE-LAB POINTS	REPORT POINTS	SAFETY POINTS
Syllabus/Safety	Aug 25	-	-	-
Density Layers	Sept 1	3.0	30	2.0
Atoms and Light	Sept 8	3.0	30	2.0
Solubility	Sept 15	3.0	30	2.0
Nature's Indicators	Sept 22	3.0	30	2.0
Buffers	Sept 29	3.0	30	2.0
Synthesis of Esters	Oct 6	3.0	30	2.0
No Lab	Oct 13	-	-	-
Saponification	Oct 20	3.0	30	2.0
Personal Products	Oct 27	3.0	30	2.0
Fats/Iodine Number	Nov 3	3.0	30	2.0
Carbohydrates	Nov 10	3.0	30	2.0
CIN Presentations	Nov 17	-	-	-
No Lab -Thanksgiving	Nov 24	-	-	-
	Points	30	300	20
			Total	350

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).

Lab Reports – 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. 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%
Lab Reports	~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 35% 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).

Course Evaluation Methods

The following instruments to determine student grades and proficiency of the learning outcomes for the course.

- Exams- Total of four exams, 100 points each
- Chapter Homework– Assigned HW from textbook
- Famous Chemist Biopic – a written essay on the life and contributions of a famous chemist
- Chemistry in the News Presentation (CIN)- group presentation
- Participation/Lab –Participation and online discussion. Labs will be performed in class

Grading Matrix:

Activities/Assignments	Comments	Total
Exams	4 exams, 100 points each	400
Homework	12 @ 10 pts each	100 (10 best hw's)
Chemistry in the news presentation	50 pts	50
Famous Chemist Biopic	50 pts	50
Participation/Lab	50 pts/350 pts	400
Total:		1000

Grade Determination

A = 90% or better

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7(7.004) Disability Accommodations for Students

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the Disability Services Office website at

<http://www.untDallas.edu/disability>. You may also contact them by phone at 972-338-1777; by email at UNTDdisability@untDallas.edu or at Building 2, room 204.

Blackboard Learn Accessibility Statement:

University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. Blackboard Learn course management system's accessibility statement is also provided: <http://www.blackboard.com/Platforms/Learn/Resources/Accessibility.aspx>

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Student Evaluation of Teaching Effectiveness Policy:

Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. 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 students' evaluations to be an important part of your participation in this class.

Assignment Policy: (According to the instructor's discretion while working in concert with the division/program's guidelines).

Exam Policy: (Online exams and the ability to retake is solely at the instructor's discretion). **NOTE:** Online exams may be proctored on campus per instructor's discretion.

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.untdallas.edu/sites/default/files/page_level2/pdf/policy/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some online or hybrid courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom Policies

Online Attendance and Participation:

The University attendance policy is in effect for this course. Class attendance in the Blackboard classroom 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 the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency. .

Attendance for this online or hybrid course is considered when you are logged in and active in Blackboard, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to <http://www.untdallas.edu/registrar> for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course

Inclement Weather and Online Classes: Online classes may or may not be effected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

Online “Netiquette:

In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, Discussion Board messages and/or any other forms of written communication in the online environment should use proper “netiquette” (i.e., no writing in all caps (usually denotes yelling), no curse words, and no “flaming” messages (angry, personal attacks).

Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.

Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University’s policies and procedures. Refer to the Student Code of Student Rights Responsibilities and Conduct at <http://www.untDallas.edu/osa/policies>. Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. 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 Dean of Students as the instructor deems appropriate.

Technology Requirements: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements.

Blackboard Learn 9.1 is the platform software for this course. Blackboard Learn supports major web browsers such as Windows Internet Explorer, Apple Safari, Mozilla Firefox, and Google Chrome. However, since the latter two are updated continually, some recent versions may not be compatible. If you experience difficulty accessing or using components of the course, try using Internet Explorer. Also, no matter what browser you use, always enable pop-ups. For more information see:

- <http://www.untDallas.edu/dlit/ecampus/requirements>
- [https://help.blackboard.com/en-us/Learn/9.1 SP 12 and SP 13/Student/040 Browser Support for SP 13](https://help.blackboard.com/en-us/Learn/9.1_SP_12_and_SP_13/Student/040_Browser_Support_for_SP_13)
- https://learn.unt.edu/bbcswbdav/institution/BrowserCheck/check_full.html