

COURSE SYLLABUS

NOTE: This syllabus is subject to change during the semester. Please check this syllabus on a regular basis for any updates.

Department : Physical Sciences
Course Title : Introductory Chemistry Lab
Section Name : CHEM_1105_B (SP)
Scheduled : 06:00PM - 08:50PM,
Start Date : 01/19/2011
End Date : 05/04/2011
Modality : FACE-TO-FACE
Credits : 1

Instructor Information

Name : Robert Morris
OC Email : rmorris@odessa.edu
OC Phone # : (432) 335-6596

Course Description

A laboratory course that illustrates and reinforces the principles and concepts of CHEM 1305 by use of quantitative experiments: emphasizes, interpreting, and reporting of data, and focuses on handling scientific equipment.

Prerequisites/Co requisites

Must be enrolled in CHEM 1305_001

Scans

1, 3, 6, 8, 9

Course Objectives

Course Objectives & Learning Outcomes

The objective is to gain working knowledge in handling scientific equipment safely and emphasize interpreting and reporting data in the scientific format.

Upon completion of this course, students will:

- (1) Understand safety in a laboratory
 - (2) Be familiar with techniques associated with a chemistry laboratory
 - (3) Be able to apply conversion of measurements
 - (4) Understand how simple chemical reactions happen
 - (5) Know how to name and write formulas for simple compounds
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Cell Phone

When class begins, all phones need to be on silent or vibrate. If it is necessary for you to answer your phone or text message, then you need to step out into the hallway. If you consistently text message while in class, you will be asked to leave the lab. Your phone **cannot** be used as a calculator on exams.

Pre-lab Exercises:

Before coming to lab that week read through the procedure for the specific experiment and outlines it on one of the handout sheets that was given. This exercise for each experiment issue when you come to the laboratory and must be completed **before** you can enter the laboratory. They will be worth 10 points of your report grade.

Reports

Report sheets with the experimental data, calculations, and assigned post laboratory questions will be due at the beginning of the following Wednesday laboratory. These pages should be legible and problems should show units and logic. Points will be deducted for late papers turned in after this deadline. Papers more than 2 class days late will **NOT** be accepted unless special permission has been obtained. Points will also be deducted for unsafe conduct in the laboratory.

Missed Laboratory Sessions

You are responsible for making up any missed laboratory sessions. This must be done **before** the laboratory supplies are put away. Be sure to make arrangements with your instructor unmake-ups. The laboratory report is still due at the sometime as

the rest of your class. If you can't make-up the lab before it is disassembled, special arrangements may have to be made. Remember the mid-semester exam and final exam will include information from laboratories that you have missed. **You will only be allowed to make up 2 missed experiments** regardless of the reasons.

Mid-Semester Exam

Covers the experiments of the first half of the semester. The test will have a short practicum with the rest of the exam being short answer format similar to the pre and post lab questions.

Final Exam

Cover the experiments of the second half of the semester. The test is short answer format, similar to the pre and post lab questions.

Required Readings/Materials

- a) You must purchase the following **required** readings/materials:
Ralph A. Burns, Fundamentals of Chemistry in the laboratory, 4th edition,

LABORATORY ASSIGNMENTS

Date	Experiment	Experiment Description	Post-lab Quest.
1/19	Check-Out, Safety Rules; Math Review	Math skills needed for the lab.	Handout
1/26	Exp. #2 Measurement and Conversions	Work individually; Omit 3c	p. 15 #1-7
2/2	Density	Work in pairs; <u>Handouts</u> from instructor	In your workbook: p. 22 # 1-3 p. 25 # 1-4
2/9	Physical and Chemical Properties	Can work in pairs; <u>Handouts</u> from instructor	On handouts: p. 65 # 1-4
2/16	Exp. # 4 Separation of a Mixture	Can work in pairs;	p. 31 # 1-4
2/23	Nomenclature	<u>Handouts</u> from instructor; classroom	All problems
3/2	Empirical Formula	Can work in pairs; <u>Handouts</u> from instructor	p. 137 # 4,5,7 p. 141 # 1-6
3/9	Mid-semester Exam	Will cover labs of 1 st half	
3/16	NO LAB	SPRING BREAK!!!!!! ENJOY!!!!	
3/23	Exp. # 12 Ionic Reactions	Can work in pairs	p. 91 # 1-7
3/30	Exp. #13 Chemical Reactions	Classroom	p. 94 – p. 97
4/6	Exp. #14 Prep of Alum	Can work in pairs	p. 107 # 2,3
4/13	Testing for Vitamin C	Can work in pairs; <u>Handouts</u> from instructor	Handout problems
4/20	Lewis Structures/ Molecular Geometry	Classroom; <u>Handouts</u> from instructor	Handout problems
4/27	Exp. #21 % of Acetic Acid	Can work in pairs	p. 151 #1-5

5/4	Final Exam	Will cover second half of semester's experiments	
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Grading Policy

Course Grading

1. Reports will be: 70% of your grade.
2. Mid-semester Exam will be: 15% of your grade.
3. Final Exam will be: 15% of your grade.

Percentage%	Grade
>89.5	A
89.4-79.5	B
79.4-69.5	C
69.4-59.5	D
<59.4	F

Special Needs

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability Services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library)

The Library, known as the Center, provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). Guides covering specific subject areas, [tutorials](#), and the ["Ask a Librarian"](#) service provide additional help.

Student E-mail

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account:
<http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Student Portal

Please access your [Odessa College Student E-mail](#), by following the link to either set up or update your account:
<http://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support

For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies

For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).