

General Chemistry Laboratory 1111 C

Spring 2011

Contact Information

Instructor: Nichole Jackson

Office: WH 126

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Office Hours: MW 9:30 – 10:00 AM; M 2:00 – 5:00 PM

TTH 9:30 – 11:30 AM; TH 1:30 – 3:30 PM

Course Information

Department: Physical Sciences

Start Date: 01/18/2011

End Date: 05/13/2011

Modality: Face-to-Face

Credits: 1 hour

Lab: W 1:00 – 3:50 pm

Required Reading/Materials

Taylor & Russell, Chemistry 1111, Odessa College, Department of Chemistry

Courses Prerequisites

Course Corequisite: CHEM 1311

SCANS

1, 3, 6, 8, 9

Course Description

A laboratory course illustrates and reinforces principles and concepts of CHEM 1311 by use of quantitative experiments and demonstrates some real world applications.

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

Students with Disability

Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the ADA of 1990. Students with special needs or issues pertaining to access and

participation in this class must contact me immediately. Further, you may call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

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.

Course Grade

Reports	70%
Mid-semester Exam	15%
Final Exam	15%

Pre-lab Exercises:

Before coming to lab that week, read through the procedure for the specific experiment and outline it on one of the handout sheets that was given. This exercise for each experiment is due 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 on make-ups. The laboratory report is still due at the same time 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

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

Learning Resource Center (Library)

The Library, known as the [Learning Resources Center](#), provides research assistance via

the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research 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](#).

LABORATORY ASSIGNMENTS**1111**

Date	Experiment	Experiment Description	Post-lab Quest.
1/19	Check-out, Safety Rules, Math Review	Math skills needed for the lab.	p. 15 -16
1/26	Exp. # 3 Measurement and Conversions	Work singly except as needed to assist in body part measurements. <u>Parts to be omitted are:</u> 2-B, D	p. 45 # 4, 6 p. 53 # 3, 4
2/2	Exp. #4 Density	Can work in pairs: <u>Omit parts:</u> A-2, B #14, C #16, 17, 18, 21, 22	p. 58 # 5,7 p. 66 # 5, 9,10
2/9	Exp. # 1 Separation of a Mixture	All parts except plant pigments.	p. 31 # 1,2, 7 p. 37 # 4, 5
2/16	Exp. # 12 Empirical Formula	All groups will do section II, oxide of magnesium.	p. 133 # 4,5,6,7 p. 139 # 4,5,6
2/23	Exp. # 2 Inorganic Nomenclature	All parts of assigned sheet.	p. 41 - p. 42 All
3/2	Exp. # 10 Formula of a Hydrate	Do all parts. Can work in pairs	P. 115 # 1,5 Questions Handout
3/9	Mid-semester Exam	Will cover labs of 1 st half of semester	
3/16	NO LAB	SPRING BREAK!!!! ENJOY!!!!	
3/23	Exp. # 13 Chemical Reactions	Do part B only. Can work in pairs.	p. 145 # 7,8,9
3/30	Exp. # 5 Conservation of Matter	Do all parts.	p. 77 # 2,3,4,5,6,7
4/6	Exp. # 9 Atomic Structure	All parts.	p. 109 # 1 – 5 p. 111 # 1 – 4
4/13	Exp. # 11 Molecular Geometry	Assigned parts of pre-lab and problems assigned on data sheet.	Complete assigned problems and p. 125 # 1-8
4/20	Exp. # 14 Acid - Base Titration	All parts.	p. 159 #4,5 p. 165 #1,2,3,4
4/27	Exp. # 6 Molar Mass of a Vapor	Part B only.	p. 82 # 8 p. 87 # 1, 2, 3, 4
5/4	Final Exam	Covers 2 nd half of semester; Check-in equipment	

Good Luck this Semester!!!!!!