

Course Information

Chemistry 1311-001

Summer I 2011

Contact Information

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Course Information

Lecture: M-Th 9:20 a.m. to 11:35 a.m.

Text: *Chemistry* 4th edition, J.W. Moore, C.L. Stanitski, P. C. Jurs, Brooks/Cole, 2011.

Required: simple Scientific calculator

(Programmable calculators cannot be used on quizzes or exams)

Course Prerequisites

Be eligible for Math 1314

Course Corequisite: CHEM 1111

Course Description

The overall goal of the General Chemistry courses is to teach students to think about the properties and behavior of the macroscopic world in terms of the structure and arrangement of the constituent molecules and atoms. Specifically in CHEM 1311, aspects of atoms and quantum mechanics are emphasized through problem-solving questions.

SCANS

1, 3, 6, 9

Course Objectives & Learning Outcomes

The objective in any chemistry course is to develop problem-solving skills. To find strategies that help you develop the *chemical intuition* needed to understand chemical reasoning.

Upon completion of this course, students will be able to:

- (1) use dimensional analysis with proper attention to units and significant figures
- (2) balance chemical equations and use stoichiometric relationships to quantify reactant and product amounts
- (3) apply Gas Laws

Course Attendance

Attendance is required and will be checked. To effectively master the material, your **attendance** for each class is necessary.

Academic Honesty

Students are responsible for understanding the code of Student Conduct found in the OC Student Handbook. Academic Dishonesty will not be tolerated in this course. Cheating in any form will be handled accordingly.

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 class. Your phone **cannot** be used as a calculator on quizzes or exams.

Course Grading

Exams	60%
Quizzes	10%
Homework	10%
Final Exam	20%

Homework

Assignments will be made, collected and graded for completeness. The homework assignments are to help you prepare for the exams because variations of these will be on the exam. You should attempt to work all of the homework questions. Answer key will be posted the day before it's due. Homework **will not be accepted** late.

Quizzes

There will be a short quiz given once each chapter is completed. The quizzes will include questions and problems over the current material but may require some knowledge of the previous material. Your lowest quiz grade will be dropped at the end of the semester. **If you miss a quiz, be prepared to make it up on the day you return to class,** otherwise you will not be allowed to make it up.

Examinations

	(tentatively)
First Exam:	Monday, June 13 th
Second Exam:	Thursday, June 23 rd
Third Exam:	Thursday, June 30 th
Final Exam:	Thursday, July 7 th , class time

Make-Up Exam

A make-up exam will be given on the last day of class before finals. If you miss an exam for any reason you will have the opportunity to take this exam. Any student who may wish to replace a lower exam may also take this exam. The make-up exam will be multiple choice questions covering the entire semester.

Final Exam

The final exam is the ACS accredited exam with 70 questions that are multiple choice.

HELP

Please do not wait until the last minute to get help! Come in during office hours or make an appointment to see **ME** as soon as a concept or problem gives you difficulty. I am here to help you make it through this experience.

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](#).

Course Schedule (tentatively)

<u>Chapter</u>	<u>Topics</u>	<u>Descriptions</u>	
I	The Nature of Chemistry	How Science is Done	Quiz
II	Atoms and Elements	Introduction of Mole	Quiz
III	Chemical Compounds	Two Types of Compounds	Quiz
	One, Two, and Three		Exam
IV	Quantities of Reactants and Products	Stoichiometry	Quiz
V	Chemical Reactions	Types of Reactions	Quiz
VI	Energy and Chemical Reactions	Enthalpy	Quiz
	Four, Five, and Six		Exam
VII	Electron Configurations and the Periodic Table	Electron Arrangement	Quiz
VIII	Covalent Bonding	Bonding Types	Quiz
IX	Molecular Structure	Multiple Bonding	Quiz
	Seven, Eight, and Nine		Exam
X	Gases and the Atmosphere	Gas Laws	Quiz
	Final Exam		Exam

Good Luck this Semester!!!!!!!!!!

CHEMISTRY 1311(moore)

HOMEWORK SET

CHAPTER I

11, 13, 15, 21, 23, 27, 28, 36, 40, 42, 53, 55, 57, 58, 65, 66, 67, 68,
74, 92

CHAPTER II

11, 12, 14, 16, 23, 25, 26, 27, 37, 38, 41, 44, 52, 53, 58, 62, 67, 69, 87, 88,
92, 119

CHAPTER III

5, 9, 10, 13, 18, 19, 20, 21, 28, 29, 36, 38, 39, 42, 43, 47, 49, 60, 63,
69, 74, 88, 99, 103, 111, 124

***Extra Credit Paper**

CHAPTER IV

2, 13, 16, 17, 19, 21, 25, 27, 28, 31, 32, 33, 35, 36, 44, 45, 52, 66, 69, 80,
88, 96, 110

CHAPTER V

2, 12, 14, 15, 16, 22, 24, 27, 30, 38, 45, 47, 53, 57, 60, 66, 73, 75, 77,
84, 94, 100, 121

CHAPTER VI

2, 12, 17, 23, 27, 30, 36, 37, 43, 52, 61, 68, 75, 77, 89, 90, 94, 96, 105,
114, 116, 132, 138, 163

CHAPTER VII

11, 18, 19, 20, 35, 36, 38, 49, 50, 53, 65, 66, 69, 78, 81, 83, 85, 93, 95, 98,
100, 104, 120, 129, 139

***Extra Credit Paper**

CHAPTER VIII

2, 9, 13, 15, 21, 27, 29, 34, 45, 47, 52, 54, 61, 67, 68, 78, 95

CHAPTER IX

13, 14, 17, 23, 24, 33, 36, 38, 45, 46, 47, 49, 50, 52, 56, 59, 61, 62, 66, 88

CHAPTER X

2, 30, 31, 32, 37, 40, 45, 46, 54, 65, 66, 108, 119

***Extra Credit Paper**