

## Course Syllabus

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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  
**Section Name** : CHEM\_1305\_1  
**Schedules** : 11:00AM - 11:50AM  
**Start Date** : 1/15/2012  
**End Date** : 5/20/2012  
**Modality** : FACE-TO-FACE  
**Credits** : 3

### Instructor Information

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

### Course Description

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A lecture course designed as a first college-transfer course for students with some background in physical science. This course will cover such topics as chemical stoichiometry, atomic structure, bonding, formulas, equations, gas laws, solutions, etc. The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format.

### Prerequisites/Co requisites

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1. Pass all sections of the COMPASS exam and be eligible to take College Algebra.
2. Co requisite: CHEM 1105 lab

### [Scans](#)

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4, 5, 10

### Course Objectives

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#### **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**

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

#### **Required**

1. *Introductory Chemistry*, 4<sup>th</sup>, Nivaldo J. Tro, Prentice Hall, 20011.
2. Simple Scientific Calculator (**Programmable calculators cannot be used on quizzes or exams**)
3. Sixteen Scranton(s)

#### **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.

### **Homework**

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 HOMEWORK WILL NOT BE COLLECTED.**

### **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.

### **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.

### **Examinations**

(Tentatively)

**First Exam:** Friday, February 18<sup>th</sup>

**Second Exam:** Friday, March 11<sup>th</sup>

**Third Exam:** Friday, April 22<sup>th</sup>

**Final Exam:** Wednesday, May 9<sup>th</sup>, at 11:00 a.m.-1:30 p.m.

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## **Course Requirements (Lectures, Assignments and Assessments)**

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### **HOMEWORK SET**

<b>Chapters: Titles</b>	<b>Quantity</b>	<b>Number</b>
ONE: The Chemistry World	11	5, 6, 7, 9, 10, 11, 12, 13, 14, 17, 19
TWO: Measurement and Problem Solving	19	17, 20, 29a, 30c, 31c, 32c, 35b, 36c, 41a/c, 42c, 43, 49, 50, 53, 55a/b, 59a/b, 67a/d, 73a/c, 99
THREE: Matter and Energy	24	3, 10, 11, 12, 13, 16, 17, 19, 20, 21, 22, 23, 25, 27, 28, 29, 33, 35, 45, 49, 61, 63, 71, 81
FOUR: Atoms and Elements	38	7, 9, 10, 11, 15, 16, 17, 18, 20, 21, 22, 24, 25, 26, 28, 33, 35, 37, 43(a/b), 45(a/b), 47(a/b), 49(a/b), 53, 55, 57, 59, 61, 63, 65, 67, 69, 73(b/c), 77(a/b), 79, 87(a/b), 93, 97, 101
FIVE: Molecules and Compounds	TBD	HANDOUT
SIX: Chemical Composition	14	3, 17, 19(a/c), 25, 29(a/d), 45c, 51(a/d), 57, 65a, 69, 73, 77, 83, 97
SEVEN: Chemical Reactions	19	5, 7, 10, 11, 12, 13, 17, 19, 22, 24, 35, 51, 57, 61, 63, 73, 75, 83, 87
EIGHT: Quantities in Chemical Reactions	16	3, 5, 9, 10, 11, 17, 10, 23(a/c), 27, 29, 35(a/b), 45(a/b), 55, 69, 71, 73
NINE: Electrons in Atoms and the Periodic Table	12	17, 27, 31, 41, 43, 51, 53a, 55a, 65, 71, 77, 85
TEN: Chemical Bonding	19	4, 9, 11, 12, 14, 15, 16, 17, 18, 33(a/d), 35, 37, 39(a/b), 63, 67, 79, 85, 87, 93
ELEVEN: Gases	TBD	TBD

**\*NOTE: The due dates are subject to change. Please check this syllabus on a regular basis for any updates.**

<b>CHAPTER: Title</b>	<b>TYPE</b>	<b>DESCRIPTION</b>
ONE: The Chemistry World	QUIZ	Chemistry
TWO: Measurement and Problem Solving	QUIZ	Numbers' Precision
THREE: Matter and Energy	QUIZ	Matter and Energy dependence
	<b>EXAM 1</b>	
FOUR: Atoms and Elements	QUIZ	Atom's Structures
FIVE: Molecules and Compounds	QUIZ	Bonding
	<b>EXAM 2</b>	
SIX: Chemical Composition	QUIZ	How Chemicals Combined
SEVEN: Chemical Reactions	QUIZ	Types of Reactions
EIGHT: Quantities in Chemical Reactions	QUIZ	Stoichiometry
	<b>EXAM 3</b>	
NINE: Electrons in Atoms and the Periodic Table	QUIZ	Electron Arrangement
TEN: Chemical Bonding	QUIZ	Predict Atoms Arrangement
ELEVEN: Gases	QUIZ	Gas Laws
<b>FINAL EXAM</b>		

### Grading Policy

#### Course Grading

1. Chapter exams will be: 60% of your grade.
3. Chapter Quizzes will be: 10% of your grade.
4. Project will be: 10% of your grade.
5. Final Exam will be: 20% of your grade.

<b>Percentage %</b>	<b>Grade</b>
>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 [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-mail**

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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**

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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**

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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 to [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm).

### **Important School Policies**

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