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
Section Name : CHEM_1305_4 (0500)
Schedules : 11:00AM - 11:50AM
Start Date : 08/27/2012
End Date : 12/14/2012
Modality : FACE-TO-FACE
Credits : 3

Instructor Information

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

Expectations for Engagement – Face to Face Learning

To help make the learning experience fulfilling and rewarding, the following Expectations for Engagement provide the parameters for reasonable engagement between students and instructors for the learning environment. Students and instructors are welcome to exceed these requirements.

Reasonable Expectations of Engagement for Instructors

1. As an instructor, I understand the importance of clear, timely communication with my students. In order to maintain sufficient communication, I will
    - provided my contact information at the beginning of the syllabus;
    - respond to all messages in a timely manner through telephone, email, or next classroom contact; and,
    - notify students of any extended times that I will be unavailable and provide them with alternative contact information (for me or for my supervisor) in case of emergencies during the time I'm unavailable.

2. As an instructor, I understand that my students will work to the best of their abilities to fulfill the course requirements. In order to help them in this area, I will
    - provide clear information about grading policies and assignment requirements in the course syllabus, and
    - communicate any changes to assignments and/or to the course calendar to students as quickly as possible.

3. As an instructor, I understand that I need to provide regular, timely feedback to students about their performance in the course. To keep students informed about their progress, I will
    - return classroom activities and homework within one week of the due date and
    - provide grades for major assignments within 2 weeks of the due date or at least 3 days before the next major assignment is due, whichever comes first.

Reasonable Expectations of Engagement for Students

1. As a student, I understand that I am responsible for keeping up with the course. To help with this, I will
    - attend the course regularly and line up alternative transportation in case my primary means of transportation is unavailable;
    - recognize that the college provides free wi-fi, computer labs, and library resources during regular campus hours to help me with completing my assignments; and,

- understand that my instructor does not have to accept my technical issues as a legitimate reason for late or missing work if my personal computer equipment or internet service is unreliable.

2. As a student, I understand that it is my responsibility to communicate quickly with the instructor any issue or emergency that will impact my involvement with or performance in the class. This includes, but is not limited to,
    - missing class when a major test is planned or a major assignment is due;
    - having trouble submitting assignments;
    - dealing with a traumatic personal event; and,
    - having my work or childcare schedule changed so that my classroom attendance is affected.

3. As a student, I understand that it is my responsibility to understand course material and requirements and to keep up with the course calendar. While my instructor is available for help and clarification, I will
    - seek out help from my instructor and/or from tutors;
    - ask questions if I don't understand; and,
    - attend class regularly to keep up with assignments and announcements.

Course Description

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

Individual Course Objectives

4, 5, 10

Course Objectives

Course Objectives &Learning Outcomes

The objective in any chemistrycourse 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 stoichiometricre lationships 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.

Required

1. Introductory Chemistry, 4th,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, September 14th
Second Exam:	Friday, October 12th
Third Exam:	Friday, November 9th
Final Exam:	Wednesday, May 12th, at 11:00 a.m.-1:30 p.m.

Course Requirements (Lectures, Assignments and Assessments)

HOMEWORK SET

Chapters: Titles	Quantity	Number
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.**

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

Grading Policy

Course Grading

1. Chapter exams will be: 50% of your grade.
3. Chapter Quizzes will be: 10% of your grade.
4. Homework will be: 10% of your grade.
5. Project will be: 10% of your grade.
6. Final Exam will be: 20% 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 1973and the Americans with Disabilities Actof1990. 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.Youmay 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'scatalog (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

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 at432-335-6878 or online to 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 students and instructors 'right to academic freedom can be found in the Odessa College Student Handbook.