

Course Syllabus

Trimester Credit Hours: 4

Course Title: General Chemistry I

Course Number: 1411

Trimester: Summer 2011

Total Contact Hours Per Trimester: 90

Course Director: Frank Pishva

fpishva@parkercc.edu

Class Meeting Time: MTWR 2-3:50 pm

Office Hours: M 1-1:50 pm (E 237)

Lab Hours Per Week: 4 (M 4-7:50 pm)

Lab Director/Instructors: Frank Pishva

Lab Contact Hours/Trimester: 30

GENERAL APPROACH TO TEACHING:

In an attempt to keep students involved and engaged, I employ several active learning techniques. To get students involved in the process of learning, I have found that giving varied assignments and multiple examples are effective techniques.

ESTIMATE OF STUDENT WORKLOAD:

5 hours outside of week to review new material; Test questions will come from suggested homework problems, activities done in class and class examples. Homework is not required but is highly suggested for success in the class

LEARNING OUTCOMES:

At the completion of this course the student should be able to:

1. Perform calculations with measurements
2. Distinguish between atoms and elements
3. Write balanced chemical equations
4. Calculate chemical quantities
5. State Gas laws and perform calculations
6. Describe calorimetry and perform calculations
7. Describe the quantum-mechanical model of the atom
8. Interpret periodic properties of elements
9. Apply VSEPR Theory to predict the shape of a molecule

Lab Objectives: At the completion of this course, the student will:

1. Know how to use common lab equipments and glassware
2. Calculate and understand density
3. Separate mixtures and calculate %composition
4. Calculate theoretical, actual and percent yield
5. Perform a basic calorimeter problem
6. Distinguish metals from their flame test

ASSESSMENT:

Assessment is given through in class examination (see course calendar for dates) and weekly group laboratory reports.

PREREQUISITES:

Enrollment in Parker University, High School chemistry, College algebra

REQUIRED TEXTBOOKS:

Chemistry, A Molecular Approach by Nivaldo J. Tro
ISBN: 0-13-978-0-321-65178-5

SUPPLIES:

Scantrons, lab coat and goggles, scientific calculator

GRADING SYSTEM:

Evaluation is an integral part of the educational process and is used as an educational tool to help students identify problem areas, to recognize and reward achievement, and to identify students who are unable to meet the rigors of the curriculum. Final course grades and their interpretation are listed below:

Grade	Numerical Value	Grade Point Average	Interpretation of Academic Achievement
A	89.5 – 100	4.0	Excellent
B	79.5 - 89.49	3.0	Above Average
C	69.5 - 79.49	2.0	Satisfactory
F	69.49 or Below	0.0	Unacceptable

This grading scale is strictly adhered to. There are NO exceptions.

Tests: 4 test	80% (20% each)
Labs:	10%
<u>Project:</u>	<u>10%</u>
TOTAL	100%

OPEN LABS

Not applicable

90/90 RULE:

Not applicable

EXTRA CREDIT:

Not applicable

A complete listing of all Academic policies is found on the MyParker Website/Academic Home Page/Common Policies:

Absences for Religious Holidays
Academic Dishonesty
Academic Promotion, Probation and Dismissal Policy
Appeals
Assistance and Accommodations
Attendance Policy
Audio/Video Taping
Cell Phones and Electronic Devices in Class
Classroom Behavior
Communications
Computer Usage
Examinations (Make up Exams/Lab Practicals)
Altering Grades on Exams
Exam Review
Final Examinations
Grading System
Late Instructors to Lecture/Lab
Missed Exam Policy
Professional Decorum
Special Needs Consideration
Student Bereavement Policy
Excused Absences

DISCLAIMER

The lecture outlines contained in the lecture booklet are NOT intended to represent the entire content of the course. A lecture outline is intended to be a guide to the lecture. The responsibility of the instructor is to follow the outline, expand the concepts and give explanation and illustrations to clarify content. The role of the student is to attend lecture and take notes over material presented by the lecturer that explains and illustrates the material listed in the outline. It is also the responsibility of the student to question the instructor if explanations and illustrations are not clearly presented or understood.

The instructors take no responsibility for the accuracy or completeness of old notes, quiz questions or exam questions that students may purchase, acquire from off of the internet or be given by previous students.

IMPORTANT NOTE:

The provisions contained in this syllabus do not constitute a binding contract between the student and the Parker University. These provisions may be changed at any time and for any reason at the discretion of the Course Director. When it is necessary to make changes to this document, appropriate notice (at least one week, if at all possible) will be given to the student(s).