

**MIAMI-DADE COLLEGE
DEPARTMENT OF NATURAL SCIENCE
WOLFSON CAMPUS**

**CHM 1033L Course Syllabus
Spring 2007**

Instructor's Information

Name: Jorge R. Pacheco

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Class Meeting Times and Text

Room 1667

Thursday 7:05-8:45 PM

Safety instructions will be given at the beginning of the class period. You **MUST** bring with you your lab manual, safety glasses and a pen. You **MUST** wear safety glasses at all times.

If you are absent, you will receive a grade of "0" for the lab. You will not be allowed to make up the lab in another section nor copy the data from another student.

Required Text: **Exploring Chemistry 6th Edition** (Provided by the department.)

Course Content

The lab has been designed to complement the concepts learned in the lecture. Through hands-on activities, you will broaden your knowledge in Chemistry and you will be doing Chemistry rather than learning it.

Safety

Safety in the laboratory will be stressed. You must follow the safety guidelines discussed at the beginning of the course. Students who do not follow these guidelines will be removed from the lab.

Recording Data

All data must be recorded in ink (non-erasable), signed and dated. If an error is made, **one line** is used to cross out the error and the correct data is entered next to the error. You must then initial the change in data and put the date the change was entered. White out or complete cross outs is not permitted. Data must be labeled telling anyone who read the data what was recorded and what units were used. You are not allowed to copy the lab report of other students. Copying the lab report of another student is considered plagiarism.

Grading Policy

Lab Reports: Each lab report worth 25 points. These points are distributed as followed: 5 points for the pre-lab questions and 20 points for the data. The pre-lab question must be shown and signed before you start with the lab. The lab report must be turned in the week after you do the experiment. If you do not turn in the lab the date is due, you will lose 2 points for every day that is late. One lab report will be dropped.

Final Examination: The final exam consists of multiple-choice questions and short-answer questions. The questions will be related to the experiments that you performed in the course. Math problems will also be included.

Safety and Neatness: You will receive 5 points in every lab for bringing your safety materials, following safety rules, and for cleaning your area after you finish the lab.

Evaluation:

Lab Reports @ 25 points each	375 points
Safety Rules and Neatness	75 points
Final Examination	<u>150 points</u>
	600 points

Week	Dates	Experiment / Module
1	Jan. 4	Check-in and Safety Module 1 – Measurement and Significant Figures
2	Jan. 11	Exp 2 - Conversion Factors in Calculations
3	Jan. 18	Exp 3 – Density and Specific Gravity
4	Jan. 25	Exp 4 – Atomic Structure and Electron Arrangement
5	Feb. 1	Exp 5 – Compounds and their Formulas
6	Feb. 8	Exp 6 – Testing for Cations and Anions
7	Feb. 15	Exp 7 – Chemical Reactions and Equations
8	Feb. 22	Exp 8 – Solutions
9	March 1	Exp 9 – Acids and Bases
10	March 8	Exp 10 – Reactions of Hydrocarbons
11	March 15	Exp 11 – Alcohols, Aldehydes, and Ketones
12	March 22	Exp 12 – Aspirin
13	March 29	Exp 13 – Types of Carbohydrates
14	April 5	Exp 14 – Test for Carbohydrates
15	April 11	Exp 15 – Saponification and Soaps
16	April 18	Exp. 16 – Peptides and Proteins
17	April 25	Final Examination