

CHEM 111
Introductory Chemistry Laboratory
Syllabus - Fall 2011



Instructors: Kim L. Pamplin, Ph.D. Steven Martinez
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Office Hours: MWF 8:30-11

Lab Manual: General, Organic & Biological Chemistry, Timberlake (2007). Benjamin Cummings

Mission of Abilene Christian University:

The mission of Abilene Christian University is to educate its students for Christian service and leadership throughout the world.

Basis for Grade:

Pre-lab quizzes (one per week)	20%
Lab Reports/post-lab questions	60%
Final Exam	20%

Grading Scale:

90.00-100	A
80.00-89.99	B
70.00-79.99	C
60.00-69.99	D
Below 60	F

Grades between 10 and 100 are considered to have four significant figures, meaning that if rounding is necessary, it will occur in the hundredths place. A grade of 89.994 rounds down to 89.99 and is a B. A grade of 79.995 rounds to 80.00 and is a B.

Course Description:

Introduction to measurement and observation. Activities coordinate with topics discussed in CHEM 113. Emphasis given to quantitative measurements and interpretation of data.
Prerequisite: CHEM 113 or concurrent enrollment. Not for chemistry or biochemistry majors.

Attendance: Attendance will be checked by signing a roll sheet each class period. Students who miss three (3) lab periods may be dropped from the lab by the professor. If a student has an excused absence, then the person may make up the missed lab(s) on M/T of the week of Dec. 4.

Grading Policy:

Pre-lab quizzes will be given each week at the beginning of lab and will last approximately 10-15 minutes. The quizzes will cover the laboratory procedures and experiment to be performed on that day. The lowest test grade and lab report grade will be dropped at the end of the semester. The lab report and questions must be turned in at the end of the lab period. **Late reports will not be accepted.** In order to avoid a ten (10) point reduction in the lab report grade, the workbench must be clean at the end of the lab period.

NO EXTRA CREDIT WILL BE GIVEN!

Laboratory Schedule:

Date	Experiment Number	Description
Aug 29		Lab rules/ check-in
Sep 5	Part I: D-1 B,D, &F, Part II: Exp 1 B&C	Conversion Factors in Calculations/ Measurements and Significant Figures
Sep 12	Part II: Exp 2	Density and Specific Gravity
Sep 19	Part II: Exp 5 A &B	Energy and Specific Heat
Sep 26	Part II: Exp 6 A & C	Energy and States of Matter
Oct 3	Part I: D-2	Atomic Structure
Oct 10	Part II: Exp 3	Electron configuration and Periodic Properties
Oct 17	Part II: Exp 14 A-C	Testing for Cations and Anions
Oct 24	Part I: D-3 F	Compounds and Their Formulas
Oct 31	Part II: Exp 7 B, C, D, E	Chemical Reactions and Equations
Nov 7	Part II: Exp 9 A&B	Moles and Chemical Formulas
Nov 14	Part II: Exp 12 A and C	Solutions, Electrolytes, and Concentration
Nov 21	Part II: Exp 8	Reaction Rates and Equilibrium LAB WILL MEET THANKSGIVING WEEK!
Nov 28	Make-Up Part II: Exp 16	Acids, Bases, pH, and Buffers
Dec 5		Cumulative Final Examination

Laboratory Dress Code!

The ACU Dress Code will be strictly enforced. In addition, for safety, the following rules will be enforced unless noted by the instructor.

No-open toe shoes.

No shorts.

No contact lenses.

Eye protection must be worn at all times while in the laboratory. At the discretion of the instructor or the teaching assistant, students may be dismissed from the laboratory and/or their grade for that experiment may be reduced beginning with the first violation.