

**CHEMISTRY 151 ELEMENTARY PHYSIOLOGICAL CHEMISTRY SYLLABUS
Summer 2009**

MEETINGS: FH 133, MTWTh, 5:30 - 9:00 pm

TEXT: Fundamentals of General, Organic and Biological Chemistry, 5th Ed, By:
McMurry & Costellion
Study Guide: Full solution manual, By: Susan E. McMurry Prentice Hall
2003

OTHER MATERIAL: You should obtain a Periodic Table, a calculator,
laboratory safety glasses

INSTRUCTOR: Mir Shamsuddin, D.V.M., Ph.D.
Office: FH 403, 773-508-3134
Hours: MT 4:30- 5:30 pm

EXAMINATIONS: EXAM 1 : June 1
EXAM 2: June 15
FINAL EXAM: thru. June 29, 09:30-7:30 pm

EXAMINATION POLICY: 2 exams 200 pts
1 Final Exam 100 pts.
Lab 90 pts.

All points will be combined and reduced to a percentage before assigning the letter grade.
No letter grade for individual exams.

A	95-100%	C+	71-75%	F<50%
A-	91-94%	C	66-70%	
B+	86-90%	C-	61-65%	
B	81-85%	D+	56-60%	
B-	76-80%	D	51-55%	

An absence in any exam automatically results in a score of zero. There will be no make up exams. In rare circumstances (major health problems or family emergencies for which evidence has to be submitted) another exam will be given within 48 hours following that exam date. In the event the final exam is missed a grade of "X" will be installed.

LABORATORY: There is a lab portion of this course. It will be described in a separate handout. Each student is expected to be enrolled in a lab session.

DISCUSSION SECTIONS: The discussion sections have been scheduled in order to help you learn chemistry by solving problems. All the different types of problems and chemical concepts that you will be expected to master will be reviewed at these sessions. In order to encourage your attendance at these sessions, a number of homework problems will be assigned for each session. You should solve or attempt to solve these assigned problems before attending your discussion section at which they will be reviewed.

Reminder of Important Policies for the Course Chem 151, Spring 09

Academic Dishonesty

The pressure of getting excellent grades can lead to frustration. However do not let such pressure interfere with your academic honor. It will be an unpleasant situation and there will be consequences if you are caught cheating, a failing grade for the course will be given. No note cards or other material can be used during exam.

Nursing students' integrity and trust is one of the most important aspects of professionalism. Any student found cheating on any examination will receive an automatic "zero" for that exam and his/her name will be brought to the attention of the Chairman of the Chemistry Department as well as the Dean of the Nursing School. It will then be decided whether further disciplinary action is necessary (in such situations, a permanent note of academic dishonesty will be attached to one's official records and transcripts).

Ethics Policy

Do not talk during class. Try not to disturb class during lectures or exam period. Be Respectful to the instructor and to your peers. If you have a problem during course, please come to me before or after the class and I will try to find the best solution.

Other Notes

1. No food or drinks are allowed in the classroom or laboratory.
2. Use of cell phones in the classroom will not be permitted; you may not bring one into the classroom unless ringer is turned off.
3. Read textbook prior to attending class.

Academic integrity is a very essential element in the educational process. For detail of the official policy regarding academic integrity visit:

http://www.luc.edu/cas/pdfs/CAS_academic_integrity_statement_07.pdf

INSTRUCTOR PRIVILEGES: The instructor reserves the right to correct any error in the syllabus or modify this syllabus as deemed necessary.

Lab Schedule: Chemistry 151- Lab Instructor: Mir Shamsuddin

Grading:

There will be a Safety Quiz worth 4 points on your first day of lab and a dry lab problems solving is worth 6 points followed by equipment check-in. There will be a total of nine experiments. The procedure for each experiment and the outline for the required Pre-lab will be passed out during the previous lab period. Each lab meeting will start with submission by students of the completed Pre-lab on the experiment to be performed that day. The Pre-Lab will be worth 3 points. The lab report is due immediately after completion of the experiment, and will be worth 7 points. Each experiment is worth 10 points total. There will be a final comprehensive exam worth 10 points. The entire Chem. 151 lab will be worth a total of 100 points. These 100 points will be added to your lecture grades and you would be assigned one grade for both the lecture and lab.

Dates

Lab Experiments

Safety, Safety quiz, Check-in, and Data Analysis

Measurement (lab 1) and Density, mass and volume (lab 2)

Chemical and Physical Changes (lab 1) and (lab 2) to be determined

Acid-Base Titration

Hydrogen Ion Concentration: pH of acids, bases, salts and buffers

Fall break and there is no lab the entire week

Organic Structures and Organic Structural Models

Hydrocarbon Reactions

Alcohol Reactions

Reactions of Aldehydes and Ketones

Final Exam / Check-out

PHYSIOLOGICAL CHEMISTRY 151 TENTATIVE LECTURE SCHEDULE
Summer 2009

Date	Day	Ch.	Topic
	M	1-3	Matter and life: States of Matter Measurements in Chemistry, Atoms and the periodic table
	T	3-4	Ionic compounds: Ions, Molecular Compounds
	W	4-5	Molecular Compound Polyatomic Ions: formula and naming
	Th	LAB 1 LAB 2	
	M		NO CLASSES
	T	5-6	Chemical Reactions
	W	6-9	Gases, Liquids, Solids, Solutions
	Th	LAB 3	EXAM I
	M	6-7	Chemical Reaction energy rate
	T	7, 10	Chemical Reaction energy rate Acids and Bases
	W	10	Acids and Bases
	Th	LAB 4 LAB 5	
	M	12	Org. Chem., Alkane, cycloalkane, aromatic compounds
	T	13	Alkene and their reaction
	W	14	Alcohols, ethers, and thiols
	Th	LAB 6	EXAM II
	M	16	Aldehyde, Ketones
	T	16, 15	Aldehyde, Ketones, Amines
	W	17	Carboxylic Acids and their Derivatives
	Th	LAB 7 LAB 8	
	M	17	Carboxylic Acids and their Derivatives
	T	22	Carbohydrates
	W	18	Amino Acids and Proteins
	Th		FINAL EXAM