

**CHEM 151 ELEMENTARY PHYSIOLOGICAL CHEMISTRY SYLLABUS
SUMMER SEMESTER 2011**

MEETINGS: FH 007 MTWTh 5:30 – 9:00pm

INSTRUCTOR: Mir Shamsuddin, D.V.M., Ph.D.

OFFICE HOURS: FH 403, MT 4:30 – 5:30pm
773-508-3134

TEXT: Fundamentals of General, Organic and Biological Chemistry, 6th Ed
By: McMurry & Costellion
Study Guide: Full Solution Manual, By: Susan E. McMurry, Prentice Hall 2003

OTHER MATERIALS: You should obtain a Periodic Table, calculator, and laboratory safety glasses.

EXAMINATIONS: Exam I: June 1, 2011
Exam II: June 14, 2011
Final Exam: June 30, 2011

EXAMINATION POLICY: 2 Exams 200 points
 1 Final Exam 100 points
 Labs 105 points

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

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

MAKE-UP EXAMS AND QUIZZES WILL NOT BE GIVEN: If a properly documented emergency (minimally written, signed, and documented by doctors, judges or similar officials, along with notification prior to the examination as well as appropriate reason and valid time period is required) prevents one from taking an exam, the instructor may allow an averaging of the other two examinations to calculate a grade for an excused exam. Absence from the final examination will result in a zero for that exam. Note—*no makeup work, extra credit, or the like will be awarded*; such an opportunity would not be fair to the others in the class and will not be entertained.

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 session⁵ (Sections 002) Tue. 1

Reminder of Important Policies for the Course Chem 152 SUMMER SEMESTER 2011

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](http://www.luc.edu/cas/pdfs/CAS%20academic%20integrity%20statement%2007.pdf)

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

PHYSIOLOGICAL CHEMISTRY 151 TENTATIVE LECTURE SCHEDULE
Summer 2011

Date	Day	Chapter	Topic
May 23	M	1-3	Matter and Life: State of Matter Measurements in Chemistry, Atoms and the Periodic Table
May 24	T	4-5	Ionic compounds: Ions, Molecular Compounds
May 25	W	5-6	Molecular Compounds Polyatomic Ions: Formulas and Naming
May 26	TH	Lab 1 Lab 2	
May 30	M		NO CLASSES
May 31	T	6, 8	EXAM I , Polyatomic Ions: Formulas and Naming, Chemical Reactions
June 1	W	7	Chemical Reaction, Energy Rate
June 2	TH	Lab 3 Lab 4	
June 6	M	12	Introduction to Organic Chemistry, Alkanes
June 7	T	12, 13	Alkanes, Alkenes and Alkynes
June 8	W	13	Alkanes, Alkenes and Alkynes
June 9	TH	Lab 5 Lab 6	
June 13	M	14	Alcohols, ethers and thiols
June 14	T	14	EXAM II , Alcohols, ethers and thiols
June 15	W	15	Amines
June 16	TH	Lab 7 Lab 8	
June 20	M	16	Aldehyde and Ketones
June 21	T	16, 17	Aldehyde, Ketones
June 22	W	17	Carboxylic Acids and their Derivatives
June 23	TH	Lab 9	
June 27	M	17, 23	Carboxylic Acids and their Derivatives
June 28	T	23	Carbohydrates
June 29	W	23	Carbohydrates
June 30	TH		FINAL EXAM

Lab Schedule: Chem. 151

Grading: There will be a Safety Quiz worth 4 points on your first day of lab 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, due immediately after completion of the experiment, and your technique, during the experiment, will be worth 7 points. There will be a final lab exam worth 11 points, which will be given by your Teaching Assistant. The entire 151-Lab will be worth a total of 115 points.

1 Measurement and Density

Chemical and Physical Changes and Temperature Profile

Water of Hydration

No Labs, Semester break

Acid-Base Titration

Hydrogen Ion Concentration, pH of Acids, Bases and Buffers

Organic structures and models

Reactions of hydrocarbons

Reactions of Alcohols

Reactions of Aldehydes and Ketones

LAB EXAM and Check-Out