

**CHEMISTRY 151 ELEMENTARY PHYSIOLOGICAL CHEMISTRY SYLLABUS**  
**Section 001-002 Fall Semester 2009**

MEETINGS: DH 641, MWF, 9:20 -10:10 am  
DH 641, MWF, 10:25 -11:15 am

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 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: MW 11:25- 12:25 pm, M 3:00 -4:00 pm, Tue 1:30-2:30 pm

EXAMINATIONS:	EXAM 1:	Sep. 18, 09	QUIZ 1:	Sep. 4, 09
	EXAM 2:	Oct. 16, 09	QUIZ 2:	Oct. 2, 09
	EXAM 3:	Nov. 13, 09	QUIZ 3:	Oct. 30, 09

FINAL EXAM: TBA (also check university announcements)

EXAMINATION POLICY:	3 Exams	300 pts
	3 Quizzes	45 pts
	1 Final Exam	100 pts
	Lab	105 pts
	HW and Diss	10 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%	

**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 session (Sections 002) Tue. 1 1:30 - 1:20.

**DISCUSSION SCHEDULE:** Mon (003) and Wed (005) 12:35 – 1:25 pm FH105  
Mon (004) and Wed (006) 1:40 – 2:40 pm FH105

**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. Attendance in discussion sessions is highly encouraged. One point of extra credit will be awarded for participation and effort for each discussion.

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

## **Reminder of Important Policies for the Course Chem 152 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](http://www.luc.edu/cas/pdfs/CAS%20academic%20integrity%20statement%2007.pdf)

## PHYSIOLOGICAL CHEMISTRY 151 LECTURE SYLLABUS FALL 2009

Date	Day	Ch.	Topic
8/24	M	1/2	Matter and life: States of Matter Measurements in Chemistry
8/26	W	3/4	Atoms and the periodic table Ionic compounds: Ions
8/28	F	3/4	Atoms and the periodic table Ionic compounds: Ions
8/31	M	4/5	Molecular Compound Polyatomic Ions: formula and naming
9/2	W	5/6	Chemical Reactions
9/4	F	6	<b>Quiz 1</b> Chemical Reactions
9/7	M	8/9	<b>NO CLASSES Labor Day</b>
9/9	W	6	Chemical Reactions
9/11	F	7/8	Chemical Reaction Energy rate
9/14	M	8/9/10	Energy rate
9/16	W	10	Acids and Bases
9/18	F	10	<b>Exam I</b>
9/21	M	12	Introduction to organic chemistry
9/23	W	12	Alkane, cycloalkane, aromatic compounds
9/25	F	12	Alkane, cycloalkane, aromatic compounds
9/28	M	13	Alkene and their reaction
9/30	W	13	Alkene and their reaction
10/2	F	13	<b>Quiz 2</b> Alkyene and their reaction
10/5	M		<b>MIDSEMESTER BREAK; NO CLASSES</b>
10/7	W	14	Alcohols, ethers, and thiols
10/9	F	14	Alcohols, ethers, and thiols
10/12	M	14	Alcohols, ethers, and thiols
10/14	W	review	Review Organic Chemistry ch 12, 13, 14

10/16	F		<b>Exam II</b>
10/19	M	15	Amines
10/21	W	15	Amines
10/23	F	15	Amines
10/26	M	16	Aldehyde, ketones
10/28	W	16	Aldehyde, ketones
10/30	F	16	<b>Quiz 3</b>
11/2	M	16	Aldehyde, ketones
11/4	W	17	Carboxylic acids and their derivatives
11/6	F	17	Carboxylic acids and their derivatives
11/9	M	17	Carboxylic acids and their derivatives
11/11	W	17	Carboxylic acids and their derivatives
11/13	F		<b>Exam III</b>
11/16	M	22	Carbohydrates
11/18	W	22	Carbohydrates
11/20	F	22	Carbohydrates
11/23	M	22	Carbohydrates
11/25	W		<b>NO CLASSES; THANKSGIVING</b>
11/27	F		<b>NO CLASSES; THANKSGIVING</b>
11/30	M	18	Amino acids and proteins
12/2	W	18	Amino acids and proteins
12/4	F		<b>REVIEW DAY</b>

**FINAL EXAM: DATE, TIME, ROOM, AND PLACE TBA**

Lab Schedule: Chem. 151

151	007	M	2:45-4:30
	008	M	2:45-4:30
	009	T	2:45-4:30
	010	T	2:45-4:30
	011	W	2:45-4:30
	012	W	2:45-4:30

Grading: There will be a Safety Quiz worth 3 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 105 points.

<u>Week Of:</u>	<u>Tentative Lab Schedule</u>
Aug. 24-28	No Labs
Aug. 31-4	Check-In, Safety Quiz, Data Analysis lab
Sep. 7-11	No Labs, Labor Day week
Sep. 14-18	Measurement and Density
Sep. 21-25	Chemical and Physical Changes and Temperature Profile
Sep. 28-2	Water of Hydration
Oct. 5-9	No Labs, Semester break
Oct. 12-16	Acid-Base Titration
Oct. 19-23	Hydrogen Ion Concentration, pH of Acids, Bases and Buffers
Oct. 26-30	Organic structures and models
Nov. 2-6	Reactions of hydrocarbons
Nov. 9-13	Reactions of Alcohols
Nov. 16-20	Reactions of Aldehydes and Ketones
Nov. 23-27	LAB EXAM and Check-Out