

CHEMISTRY 151 ELEMENTARY PHYSIOLOGICAL CHEMISTRY SYLLABUS
Section 001-0029 Fall Semester 2008

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

EXAMINATIONS: EXAM 1: Sep. 24, 08 QUIZ 1: Sep. 15, 08
EXAM 2: Oct. 21, 08 QUIZ 2: Oct. 15, 08
EXAM 3: Nov. 21, 08 QUIZ 3: Nov. 12, 08
FINAL EXAM: TBA (also check university announcements)

EXAMINATION POLICY: 3 Exams 300 pts
3 Quizzes 50 pts
1 Final Exam 100 pts
Lab Exam 100 pts

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

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|----|---------|----|--------|-------|
| 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 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.

Reminder of Important Policies for the Course Chem 151 Fall 2008

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.

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

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.

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.

Academic Integrity

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).

Instructor Privileges

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

PHYSIOLOGICAL CHEMISTRY 151 LECTURE SYLLABUS FALL 2008

| Date | Day | Ch. | Topic |
|-------|-----|-----|----------------------------------------------------------------|
| 8/25 | M | 1/2 | Matter and life: States of Matter Measurements in Chemistry |
| 8/27 | W | 3/4 | Atoms and the periodic table Ionic compounds: Ions |
| 8/29 | F | 4/5 | Molecular Compound Polyatomic Ions: formula and naming |
| 9/1 | M | | LABOR DAY; NO CLASSES |
| 9/3 | W | 5/6 | Chemical Reactions |
| 9/5 | F | 6 | Chemical Reactions |
| 9/8 | M | 8/9 | Gases. Liquids, Solids, Solutions, Lab Check-In |
| 9/10 | W | 7 | Chemical Reaction energy rate |
| 9/12 | F | 7 | Chemical Reaction energy rate |
| 9/15 | M | 10 | Acids and Bases, Quiz 1, Lab 1 |
| 9/17 | W | 10 | Acids and Bases |
| 9/19 | F | 10 | Acids and Bases |
| 9/22 | M | 12 | Introduction to organic chemistry, Lab 2 |
| 9/24 | W | | EXAM I |
| 9/26 | F | 12 | Alkane, cycloalkane, aromatic compounds |
| 9/29 | M | 13 | Alkene and their reaction, Lab 3 |
| 10/1 | W | 13 | Alkene and their reaction |
| 10/3 | F | 13 | Alkyene and their reaction |
| 10/6 | M | | MIDSEMESTER BREAK; NO CLASSES |
| 10/8 | W | 14 | Alcohols, ethers, and thiols |
| 10/10 | F | 14 | Alcohols, ethers, and thiols |
| 10/13 | M | 14 | Alcohols, ethers, and thiols, Lab 4 |
| 10/15 | W | 16 | Aldehyde, ketones, Quiz 2 |

| | | | |
|-------|---|----|------------------------------------------------------------------------------------------|
| 10/17 | F | 16 | Aldehyde, ketones |
| 10/20 | M | 16 | Aldehyde, ketones, Lab 5 |
| 10/22 | W | | Exam II |
| 10/24 | F | 16 | Aldehyde, ketones |
| 10/27 | M | 15 | Amines, Lab 6 |
| 10/29 | W | 15 | Amines |
| 10/31 | F | 17 | Carboxylic acids and their derivatives Last day to withdraw from classes without "WF" |
| 11/3 | M | 17 | Carboxylic acids and their derivatives, Lab 7 |
| 11/5 | W | 17 | Carboxylic acids and their derivatives |
| 11/7 | F | 17 | Carboxylic acids and their derivatives |
| 11/10 | M | 22 | Carbohydrates, Lab 8 |
| 11/12 | W | 22 | Carbohydrates, Quiz 3 |
| 11/14 | F | 22 | Carbohydrates |
| 11/17 | M | 22 | Carbohydrates, Lab 9 |
| 11/19 | W | 22 | Carbohydrates |
| 11/21 | F | | EXAM III |
| 11/24 | M | 18 | Amino acids and proteins |
| 11/26 | W | | NO CLASSES; THANKSGIVING |
| 11/28 | F | | NO CLASSES; THANKSGIVING |
| 12/1 | M | 18 | Amino acids and proteins |
| 12/3 | W | 18 | Amino acids and proteins |
| 12/5 | F | | REVIEW DAY |

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 |

Lab Instructor: Mir Shamsuddin
Teacher Asst:

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 is due immediately after completion of the experiment, and will be worth 7 points. There will be a technique grade of up to 7 points for the semester, which will be given by your Teaching Assistant based on your efficiency, preparedness and overall performance in the lab. The entire 151 Lab will be worth a total of 100 points.

Week Of:

Tentative Lab Schedule

| | | |
|------|-------|-------------------------------------------------------------------|
| Sep. | 8-12 | Check-In, Safety Quiz, Data Analysis lab |
| Sep. | 15-19 | Measurement and Density (Expt. 1), Mass and Volume (Expt. 2) |
| Sep. | 22-26 | Chemical and Physical Changes (Expt. 1), TBA (Expt. 2) |
| Sep. | 29-3 | Acid-Base Titration |
| Oct. | 13-17 | Hydrogen Ion Concentration: pH of acids, bases, salts and buffers |
| Oct. | 20-24 | TBA |
| Oct. | 27-31 | Organic Structures and Organic Structure Models |
| Nov. | 3-7 | Hydrocarbon Reaction |
| Nov. | 10-14 | Alcohol Reactions |
| Nov. | 17-21 | Reactions of Aldehydes and Ketones |
| Nov. | 24-28 | LAB EXAM and Check-Out |

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