

CHEMISTRY 151 ELEMENTARY PHYSIOLOGICAL CHEMISTRY SYLLABUS
Summer Semester 2012

MEETINGS: Lecture: LSB 412, TWTh, 8:30 - 11:30 am
Lab: FH 204, F 8:30-11:30 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: WF 11:45- 12:45 pm

EXAMINATIONS: EXAM 1: May 31, 2012
EXAM 2: June 14, 2012
EXAM 3: June 29, 2012

FINAL EXAM: TBA (also check university announcements)

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| <u>EXAMINATION POLICY:</u> 2 Exams | 200 pts |
| 1 Final Exam | 100 pts |
| Lab | 115 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% | |

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. 1:30 - 1:20.

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 151 Summer 2012

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/classicalstudies/academics.shtml#integrity>

Instructor Privileges

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

RULES for FAIR ACADEMIC CONDUCT

- 1) Attendance during scheduled lectures is required.
- 2) Attendance during discussion periods and participation in assigned work is required and will earn points for attendance.
- 3) Any talking, cell phone ringing, or similar disturbance during lectures will not be tolerated.
- 4) No make-up exams permitted unless emergency is documented and with permission of Chair of Chemistry Dept. or Nursing Asst. Dean.
- 5) No make-ups for lab experiments. A missed lab grade will be assigned a Zero.
- 6) No notebooks, notes, or laptops are allowed during exams and quizzes.
- 7) Cell phones cannot be in use in any form during exams and quizzes. Violations will be considered academic dishonesty.
- 8) Any form of copying, consulting with other students or their papers during exams will automatically qualify as academic dishonesty.

PHYSIOLOGICAL CHEMISTRY 151 TENTATIVE LECTURE SCHEDULE
Summer 2011

| Date | Day | Chapter | Topic |
|-------------|------------|----------------|--|
| May 22 | T | 1-3 | Matter and Life: State of Matter Measurements in Chemistry, Atoms and the Periodic Table |
| May 23 | W | 4-5 | Ionic compounds: Ions, Molecular Compounds |
| May 24 | TH | 5-6 | Molecular Compounds Polyatomic Ions: Formulas and Naming |
| May 25 | F | Lab | |
| May 29 | T | | Polyatomic Ions: Formulas and Naming, Chemical Reactions |
| May 30 | W | 6, 8 | Chemical Reactions |
| May 31 | TH | 7 | EXAM I , Chemical Reaction, Energy Rate |
| June 1 | F | Lab | |
| June 5 | T | 12 | Introduction to Organic Chemistry, Alkanes |
| June 6 | W | 12, 13 | Alkanes, Alkenes and Alkynes |
| June 7 | TH | 13 | Alkanes, Alkenes and Alkynes |
| June 8 | F | Lab | |
| June 12 | T | 14 | Alcohols, ethers and thiols |
| June 13 | W | 14 | Alcohols, ethers and thiols, Amines |
| June 14 | TH | 15 | EXAM II , Amines |
| June 15 | F | Lab | |
| June 19 | T | 16 | Aldehyde and Ketones |
| June 20 | W | 16, 17 | Aldehyde and Ketones |
| June 21 | TH | 17 | Carboxylic Acids and their Derivatives |
| June 22 | F | Lab | |
| June 26 | T | 17, 23 | Carboxylic Acids and their Derivatives |
| June 27 | W | 23 | Carbohydrates |
| June 28 | TH | 23 | Carbohydrates |
| June 29 | F | | FINAL EXAM |

LAB:

Grading: There will be a Safety Quiz worth 5 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 10 points, which will be given by your Teaching Assistant. The entire 151 Lab will be worth a total of 115 points.

| <u>Week Of:</u> | <u>Tentative Lab Schedule</u> |
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| May 25 | Check-In, Safety Quiz Measurement and Density Chemical and Physical Changes and Temperature Profile |
| June 1 | Acid-Base Titration Hydrogen Ion Concentration, pH of Acids, Bases and Buffers |
| June 8 | Organic structures and models Reactions of Hydrocarbons |
| June 15 | Reactions of Alcohols Reactions of Aldehydes and Ketones |
| June 22 | LAB EXAM and Check-Out |