Lecture: Flanner Hall FH-133 (Auditorium);
Student Solutions Manual: Required; Study Guide: Optional (Not required)
Lecturer: Dr. Frank Dias, FH-104; email: fdias@luc.edu  [Chem Office Phone:773-508-3100]
Office Hours: TBD;

EXAMINATIONS, HOMEWORK, DISCUSSIONS, etc, & ACADEMIC HONESTY:
Three "l-hour" exams, one 90-min exam, and a Final (2-Hour) Exam will be given on the dates listed in
the course syllabus. Exams will be multiple-choice, using Scantron forms, and possibly 10-25% written
part for select Exam(s). No extra time will be given for students who arrive late. *** MAKE-UP WILL
NOT BE GIVEN FOR MISSED EXAMS OR QUIZZES***. Proportionate scores will be used in
cases of excused absences at the discretion of the instructor. An excused absence will be given only in
case of an extreme family crisis or serious illness, which must be verified by a letter from a parent or an
attending physician. There will be penalty for incomplete filling of Name, ID, Test Version, etc. on
Scantron form. You must study the course syllabus and ask only pertinent and necessary clarifications.
The Loyola University Chicago Mission Statement regarding commitment to excellence in
Teaching/Learning will be followed.

A list of suggested homework is provided. However, homework submission is not required. Homework
must be done promptly, corresponding to the Chapters in progress. Doing all suggested homework is very
essential for good performance in exams. Participation in class-time discussion, participation during
group discussions, and response to questions from the Instructor during lecture and discussions is very
important. Regular lecture and discussion attendance is very essential for any consideration towards
emergency situations. ‘Peer Led Team Learning’ techniques are used that are very effective for
understanding the material. Discussion time will be a good time to have questions answered. Lack of
participation during lecture/discussion sessions could adversely affect a student’s performance.
Discussions will focus on material presented during the current lecture, as well as pertinent material
covered in previous lectures. Important information will be provided also through “Blackboard” and
e-mail as necessary.

ACADEMIC HONESTY & DISCIPLINE: Students are responsible for exercising the highest levels of
academic honesty on exams and assignments. The University policy regarding this is stated in the
Catalog of Undergraduate Studies. The lecture and discussion class may be seated in alphabetical order or
in groups with initially assigned ‘group leaders’ to assist the instructor in coordinating sign-up sheets,
questions from class, small group discussions, etc. Classroom discipline and etiquette will be strictly
maintained. Any class disruption or disrespect of the instructor, teaching assistants, or peers will not be
tolerated, and appropriate action will be taken as provided by the University rules.

GRADING SCHEME:  The distribution of point scores is as follows:

<table>
<thead>
<tr>
<th>Class</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three “Hour” exams</td>
<td>300 pts</td>
</tr>
<tr>
<td>Fourth exam “90-min”</td>
<td>100 pts</td>
</tr>
<tr>
<td>Final “2-Hour” exam</td>
<td>125 pts</td>
</tr>
<tr>
<td>Pop Quizzes</td>
<td>125 pts</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>650 pts</td>
</tr>
</tbody>
</table>

All Exams will be SCANTRON graded and a SCANTRON Report will be provided with a Histogram
which will have Mean and Standard Deviation (σ). After the First Exam you will be shown how to use the
Histogram, and determine your performance and standing [A (4.00), A’ (3.67), B’ (3.33), B (3.00), B’ (2.67),
C’ (2.33), C (2.00), C’ (1.67), D’ (1.33), D (1.00), F] in the Class.

Generally Mean+1.5σ is “A”, Mean+0.75σ is “B”, Mean−0.25σ is “C”, Mean−1.0σ is “D”, and below Mean−1.0σ
is “F”. These are indicator grades. The Final Overall Course Grade will depend on the Mean and σ of the entire
total points for the Semester after the Final Exam, including any possible Extra Credit points.
1. Matter and Measurements pp. 1-33
2. Atoms, Molecules, and Ions 34-73
3. Stoichiometry: Chemical Formulas and Equations 74-111
4. Aqueous Reactions & Solution Stoichiometry 112-151
5. Thermochemistry 152-197
6. Electronic Structure of Atoms and Table 198-235
7. Periodic Properties of Elements 236-273
8. Chemical Bonding 274-313
10. Gases 364-405
11. Intermolecular Forces (Selected Topics only) 406-449
12. Modern Materials (Superconductivity only) 450-483
13. Properties of Solutions 484-523

**COURSE SCHEDULE (Tentative)**

Jan 21: Intro / Re: Math Review / Discussion / Scheduling / Begin Ch.1;

Jan 28: *Math Review* Lecture: Chapter 1; Discussion

Feb 04: **Quiz-1** (8:30-8:40, 10 pts) Lecture: Chapter 2; ” (5 pts)
Feb 11: **Quiz-2** (8:30-8:40, 10 pts) Lecture: Chapter 3; ” (5 pts)
Feb 18: **Exam-1** (60-min, 100 pts) Lecture: Chapter 4; ” (5 pts)
Feb 25: **Quiz-3** (8:30-8:40, 10 pts) Lecture: Chapter 5; ” (5 pts)
Mar 04: **Exam-2** (60-min, 100 pts) Lecture: Chapter 10; ” (5 pts)

Mar 11: …………………….. Spring Break … No Class……….\n
Mar 18: **Quiz-4** (8:30-8:40, 10 pts) Lecture: Chapter 11-12-13; ” (5 pts)
Mar 25: **Exam-3** (60-min, 100 pts) Lecture: Chapter 6; ” (5 pts)
Apr 01: **Quiz-5** (8:30-8:40, 10 pts) Lecture: Chapter 7; ” (5 pts)
Apr 08: **Quiz-6** (8:30-8:40, 10 pts) Lecture: Chapters 8; ” (5 pts)

Apr 15: …………………….. Holy Saturday (Easter Eve) … No Class …

Apr 22: **Quiz-7** (8:30-8:40, 10 pts) Lecture: Chapters 9; ” (5 pts)
Apr 29: **Exam-4** (90-min, 150 pts) … Review for Final Exam (10:00-12:30)…

May 06: **Exam-5** (2-hour, 150 pts) (Final Exam – All Chapters except 6-7-8-9);

**General Chemistry A (Chem 101-14-001). Suggested Problems**

**Chapter 1:** 17, 19, 23, 25, 29, 35, 37, 43, 45, 49, 58, 66, 71,
**Chapter 2:** 11, 15, 17, 29, 41, 43, 45, 47, 51, 53, 55, 56, 59, 61,
**Chapter 3:** 5, 7, 11, 15, 17, 19, 21, 27, 29, 33, 41, 45, 57, 73,
**Chapter 4:** 13, 15, 29, 39, 41, 43, 51, 53, 55, 57, 59, 65, 67, 75
**Chapter 5:** 5, 7, 19, 33, 35, 41, 43, 45, 47, 49, 59, 61, 67, 69, 71, 75, 77
**Chapter 6:** 7, 9, 13, 15, 17, 19, 27, 29, 31, 33, 59, 61, 63, 69, 71, 73,
**Chapter 7:** 23, 25, 27, 31, 33, 35, 37, 39, 47, 49, 53, 55, 59, 61, 63,
**Chapter 8:** 1, 3, 11, 13, 27, 43, 45, 47, 49, 53, 55, 57,
**Chapter 9:** 9, 11, 13, 15, 25, 27, 31, 33, 37, 41, 43, 65, 69
**Chapter 10:** 9, 19, 21, 25, 27, 33, 35, 41, 49, 53, 55, 65,
**Chapter 11:** 7, 9, 13, 17, 21, 43, 45; **Chapter 12:** 39, 41, 43; (Superconductivity only)
**Chapter 13:** 23, 25, 27, 29, 35, 37, 39, 47, 49, 51, 55, 57, 61,

**NOTE:** All Sample Exercises & Practice Exercises in the Chapters are included except those omitted in class. [p.2/2]