

Chemistry 201:
Chemical Principles
Summer 2019
Course Syllabus

- **Professor:** L. I. Halaoui
- **Class Times:** MTWR 10:30 am-11:45 am in CHEM 001
- **Office Hours:** Tuesday and Thursday 12:00-1:00 or by appointment (send an email to lh07@aub.edu.lb)
- **Office:** Chemistry Building, room 524
- **Resources available to students:**
 - ❑ **Textbook:** S. S. Zumdahl and D. J. DeCoste, **Chemical Principles**, 8th (International) Edition, Brooks/Cole, Cengage Learning, 2015.
+ **Solutions manual:** copies available on the reserve shelf in the Science Library.
 - ❑ **Lectures and hand-outs:** will all be posted on **MOODLE**.
 - ❑ **Solutions:** answers at the end of each chapter + detailed solutions in the Solutions Manual.
- **Grading:**
Attendance: 5 % (2 absences allowed without affecting grade)
Two 60-minutes quizzes: (better grade 30%, lower grade: 20%)
Final exam: 45%.
- **Learning outcomes:**

Chem. 201 is a course intended to unify the **General Chemistry** background of incoming University students at the sophomore level, majoring in the Natural Sciences (Chemistry, Biology, Physics, Geology...), preparing for the Medical School, or providing the Chemistry background for Engineering. It should provide the student with a solid background in basic chemical principles, with two major objectives ahead:

1. Achieving a deep assimilation of chemical concepts, along with an ability to manipulate them and apply them in real life, while stressing the problem solving strategy.
2. Developing calculation skills in quantitative chemical problems, and acquiring a thinking methodology that should enable the student to approach *any* type of problem related to the studied material.

The following is a set of outcomes that should adhere to the student's mind after completion of the course:

- ❑ Learn the foundations of atomic structure and the origins of its discovery. Learn and assimilate the concepts and some mathematical aspects of *Quantum Mechanics*, which

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