

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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Table of Contents Futa Chem 201 Syllabus

1. Understanding the eBook Futa Chem 201 Syllabus
 - The Rise of Digital Reading Futa Chem 201 Syllabus
 - Advantages of eBooks Over Traditional Books
2. Identifying Futa Chem 201 Syllabus
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Futa Chem 201 Syllabus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Futa Chem 201 Syllabus
 - Personalized Recommendations

- Futa Chem 201 Syllabus User Reviews and Ratings
- Futa Chem 201 Syllabus and Bestseller Lists
- 5. Accessing Futa Chem 201 Syllabus Free and Paid eBooks
 - Futa Chem 201 Syllabus Public Domain eBooks
 - Futa Chem 201 Syllabus eBook Subscription Services
 - Futa Chem 201 Syllabus Budget-Friendly Options
- 6. Navigating Futa Chem 201 Syllabus eBook Formats
 - ePub, PDF, MOBI, and More
 - Futa Chem 201 Syllabus Compatibility with Devices
 - Futa Chem 201 Syllabus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Futa Chem 201 Syllabus
 - Highlighting and Note-Taking Futa Chem 201 Syllabus
 - Interactive Elements Futa Chem 201 Syllabus
- 8. Staying Engaged with Futa Chem 201 Syllabus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Futa Chem 201 Syllabus
- 9. Balancing eBooks and Physical Books Futa Chem 201 Syllabus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Futa Chem 201 Syllabus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Futa Chem 201 Syllabus
 - Setting Reading Goals Futa Chem 201 Syllabus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Futa Chem 201 Syllabus
 - Fact-Checking eBook Content of Futa Chem 201 Syllabus

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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