

MARMARA UNIVERSITY

Faculty of Engineering

COURSE INTRODUCTION FORM, FALL 2011-2012

CHEM 101 - GENERAL CHEMISTRY I (3+0+2) 4

Course Objectives My main objective is to develop the student's understanding of chemistry. By the end of the semester the student should be able to understand the role of the atomic concept in chemistry and how to set up and solve standard chemical calculations bases on chemical formulas and balanced chemical equations. The students have to understand simple concepts of chemical bonding, importance of molecular geometry in determining chemical properties, reactivity and the role of energy in chemical reactions.

Instructor Assist.Prof. Kozet YAPSAKLI (e-mail: kyapsakli@marmara.edu.tr)

Office Hours Tuesday 13:30-15:30 (MB 642) – Phone: 0 216 348 02 92 (290)

Textbook Brown, LeMay, Bursten, “Chemistry, The Central Science”.

References James E. Brady and John R. Holum, CHEMISTRY; The Study of Matter and Its Changes, John Willey and Sons, Inc.

Course Contents

1. Introduction: Matter and Measurements
2. Atoms, Molecules, and Ions
3. Stoichiometry: Calculations with Chemical Formulas and Equations
4. Aqueous Reactions and Solution Stoichiometry
5. Thermochemistry
6. Periodic Properties of the Elements
7. Gases
8. Introduction to Environmental Chemistry

Attendance 70 % attendance will be taken in lecture

Grading Policy

Midterm I	: 20%
Midterm II	: 20%
Laboratory	: 20%
Final	: 40%