

CHEM 105
FUNDAMENTALS OF CHEMISTRY
SUMMER`26

Instructor: Dr. Jesmi Çavuşoğlu (jesmi.cavusoglu@bogazici.edu.tr)

Office Hours: by appointment (Chemistry Department KB7)

Lecture Hours: T34, W34, Th34

Lab: T56, W56, Th56

Problem Session: Th12

Textbook: General Chemistry by Petrucci, Herring, Madura, Bissonnette **12th Ed.**

Topics Covered:

1. Electrons in Atoms (Ch 8)
2. Periodic Table and Some Atomic Properties (Ch 9)
3. Chemical Bonding I: Basic Concepts & Chemical Bonding II: Valence Bond and Molecular Orbital Theories (Ch 10 & Ch 11)
4. Liquids, Solids and Intermolecular Forces (Ch 12)
5. Principles of Chemical Equilibrium (Ch 15)
6. Chemical Kinetics (Ch 20)
7. Thermochemistry (Ch 7)
8. Spontaneous Change: Entropy and Free Energy (Ch 13)

Basis of Evaluation:

Mid-Term I	TBA	25%
Mid-Term II	TBA	25%
Lab*		10%
Final		40%
Total		100%

* If you fail the Lab course you will automatically fail the course. Those who have passed the lab but failed the course previously DO NOT have to take the lab again.

* Total of 60/200 must be achieved from the two midterm exams to qualify for the final exam.

* There are no make-up exams in the summer term.