

14002_ General Chemistry (I)

Course Description: General Chemistry (I)

Course Information:

Schedule Saturday and Monday, 15:00 – 16:30

Lecturer Dr. Nafiseh Fahimi-Kashani

Email nfahimi@iut.ac.ir

Textbooks:

- **Required:**

1- Principle of General Chemistry_ 2nd Edition_ Silberberg

- **Recommended:**

1- Chemistry_ 5th Edition_ Mortimer

2- Chemistry For Changing Times_14th Edition_ Hill

3- General Chemistry: Principles and Modern Application_11th Edition_ Petrucci

4- General Chemistry_ 10th Edition_ Zumdahl

Lectures Coverage:

- 1- The Components of Matter
- 2- Stoichiometry of Formulas and Equations
- 3- Three Major Classes of Chemical Reactions
- 4- Gases and the Kinetic-Molecular Theory
- 5- Thermochemistry: Energy Flow and Chemical Change
- 6- Quantum Theory and Atomic Structure
- 7- Electron Configuration and Chemical Periodicity
- 8- Models of Chemical Bonding
- 9- The Shapes of Molecules
- 10- Theories of Covalent Bonding
- 11- Intermolecular Forces: Liquids, Solids, and Phase Change
- 12- The Properties of Solutions

Evaluation:

	Points (%)
Final Exam	40
Midterm Exam	30
Participation in TA classes and assignments	10
Quizzes	10
Attendance	10