

Course Title	Code	Semester	T+A	Credit	ECTS
General Chemistry-I	0804125	1	3+0	3	3

Precondition Courses	
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Course Language	Türkçe
Course Type	Zorunlu
Course Coordinator	
Lecturer	Prof. Dr. Mustafa DEĞİRMENÇİ
Course Assistants	
Course Objectives	This course gives information about the basic concepts of general chemistry to the first year students of Biology department and tells them the importance of general chemistry in their daily life.
Learning Outcomes and Sub-skills of the Course	<b>At the end of this course the student;</b> <ol style="list-style-type: none"> <li>1. will learn and apply related concepts of Matter, properties of matter and measurements</li> <li>2. Learn concepts related to atoms and symbols, chemical compounds, formulas, chemical reactions and calculations and gain problem-solving skills.</li> <li>3. will learn the basic concepts of gases, thermochemistry and periodic table.</li> <li>4. will be able to learn basic concept of chemical bond and solution.</li> </ol>
Course Contents	Matter-Its properties and Measurement, Atoms and The Atomic Theory, Chemical Compounds, Chemical Reactions, Reactions in Aqueous Solutions, Gases, Thermochemistry, Atomic electron structure, The Periodic Table and Atomic Properties, Chemical Bonding I, Chemical Bonding II, Liquids, Solids, and Intermolecular Forces, Solutions and their Physical Properties.

WEEKS	TOPICS
1	Matter-Its properties and Measurement
2	Atoms and The Atomic Theory
3	Chemical Compounds
4	Chemical Reactions
5	Reactions in Aqueous Solutions,
6	Gases
7	Midterm Exam
8	Thermochemistry
9	Atomic electron structure
10	The Periodic Table and Atomic Properties,
11	Chemical Bonding I
12	Chemical Bonding II
13	Liquids, Solids, and Intermolecular Forces
14	Solutions and their Physical Properties

#### GENERAL COMPETENCES

To be able to use properly and correctly the basic concepts related general chemistry,  
To learn and demonstrate the formulas of atom and chemical compounds,  
To make chemical calculations and gain skills of problem solving,

#### REFERENCES

- R. H. Petrucci ve W. S. Hardwood, "General Chemistry and Application"; Çeviri Editörü: T. Uyar, "Genel Kimya Prensipler ve Uygulamalar", Palme yayıncılık, Ankara 2003.
- E. Erdik, Y. Sarıkaya, "Temel Üniversite Kimyası", Gazi Kitabevi, Ankara 2004.
- P. Atkins, L. Jones; Çeviri Editörleri: E. Kılıç, F. Köseoğlu, H. Yılmaz, "Temel Kimya I" ve

"Temel Kimya II", Bilim yayıncılık, Ankara 2004  
- N. K. Aras ve N. K. Tunalı, Kimya- Temel Kavramlar, 5. Baskı, Beta Basım A.Ş.  
İstanbul, 1999.

**RATING SYSTEM**

**Midterm Exam:** %40

**Final Exam** : %60

**Makeup exam:**