

NEAR EAST UNIVERSITY – COMMON COURSES COORDINATION UNIT



Ders Bilgi Formu / Course Information Sheet

Ders Kodu / Course Code CHM 111	Ders Adı / Course Name Chemistry for Pharmacy Students	Kredi /Credit 3	AKTS /ECTS 5				
Önkoşul / Pre-requisite: No							
Ders Dili / Language: English		Ders Türü /Course Type: Mandatory	Öğretim Ortamı / Mode of Instruction: Face to face				
Haftalık Ders Saati / Weekly Hours	Sınıf Saati / Class Hours	Laboratuvar / Laboratory	Uygulama / Practicum	Öğretim Oturumları / Learning Sessions			
	3(2+1)	0	0	PÇ / PS	P / C	D / R	Ö / T
				1	0	0	2
Öğrenim Çıktıları / Learning Outcomes	<p>After the completion of this course, the student will be able to:</p> <ul style="list-style-type: none"> • understand the chemical and physical properties of matter • understand the basic model of the atom • understand the atomic properties and Periodic Table of elements • understand stoichiometric relationships involved in reactions • understand the ideal gas law and its application in quantitative problems. • calculate and utilize solution concentration units such as molarity • understand the acid and base concept, and the important applications on the pharmacy • understand the aqueous solutions and equilibrium concept for the solution <p>understand the chemical kinetics of the chemical reactions</p>						
Ders Tanımı / Course Description	<p>This course is designed as a one-semester course for freshman pharmacy students. Also, this course ensures the teach to students the common technical terms, which are the basis of chemistry and chemical reactions. This course allows the teach mathematical and conceptual equations for quantifying chemical reactions. The topics are listed below, Descriptive chemistry, elements and compounds; basic chemical calculations, mole problems and solution concentrations; gas laws; quantum theory and electronic structure of atoms; periodic properties of the elements; Preparation of dilute solutions; Chemical equilibrium & Kinetics</p>						
Dersin Amaçları / Course Objectives	<p>One of the objectives of General Chemistry is to give student a basic knowledge of the principles of chemistry, its importance connection to other sciences. Other objectives of that course are fostering critical thinking and analytical reasoning skills, and developing an ability to think their way through problems.</p>						
Kullanılan Materyaller / Textbooks and/or References	<p>1 General Chemistry: Principles and Modern Applications, 8/E: Petrucci. Harwood. Herring</p> <p>2 General Chemistry: The Essential Concepts, 6/E: Raymond Chang. Jason Overby</p>						
Ders İçeriği / Course Content	<p>Description and explanation of Physical state and Chemical Constitution, Atoms and atomic theory, Molecular and Ionic Substances, Chemical reactions, Aqueous solutions, Preparation of dilute solutions, Atomic properties and Periodic table, Electrons in atoms, Acids-Bases, Chemical equilibrium & Kinetics, Gases.</p>						