

Course Number	Course	Credit hours	Prerequisite
0300180	General and Organic Chemistry	4	--

This course includes a practical part and a theoretical part, this course provides the students with the basic introduction of general chemistry needed to understand the chemical and physical properties of the main classes of organic compounds. Accordingly, the course firstly introduces the students to the atomic structure and chemical bonds between atoms. Identification of the acid and bases, and their definitions will be covered. The main classes of organic compounds will be covered and their physical properties, based on their intermolecular interactions, will be explained. Besides that, the chemical reaction of the main classes of organic compounds will be introduced to obtain the final products will be explained. The correct nomenclature of the basic organic compounds will be introduced using the IUPAC. In order to add high level of critical thinking, since the organic chemistry is based on reparation of final products from a starting material, the steps need for the synthesis of some organic compounds will be explained, based on the full understanding of the chemical reactions of each class of organic compounds.