



Code	CBQ207L	Prerequisites	CBM102
Name	Chemistry Laboratory I	Co-requisites	CBQ207

Credits	Contact Hours
01	10
Categorization of credits	
Math and basic science	X
Engineering topic	
Other	

Coordinator's name	Carmen Sánchez
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Text book
Other supplemental materials
<p>Chang R. (2010) Chemistry. (10th Edition). Mexico: Editorial McGraw Hill.</p> <p>Mendoza, L. (2013) Manual de Laboratorio de Química. República Dominicana INTEC.</p> <p>Quezada, R. (2014). Química General. Guía de ejercicios y problemas. Volumen I. República Dominicana INTEC.</p> <p>Security video in the laboratory. (2017). Retrieved from https://www.youtube.com/watch?v=X09tFwCCssY</p> <p>Whitten K, Davis R, Peck M, Stanley G. (2014) Chemistry. (10th Publisher). Mexico: Cengage Learning.</p>

Description	
The Chemistry I laboratory provides students with a set of knowledge to experimentally verify contents of the subject. The practices are designed so that they can become familiar with the equipment, reagents and materials commonly used in a Chemistry laboratory and develop abilities and skills in handling them, assuming collaborative work with analytical criteria. Respect the safety rules for your protection and the environment.	
Type of course	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective

Specific goals for the course	
Outcomes of instruction	EG1. Apply the language and methods of the discipline in problem solving according to models developed in class.

	<p>EG2. Interpret and evaluate data and information from measurements and exposed experiments.</p> <p>EG3. Use laboratory equipment to acquire skills in the use of experimental techniques.</p>
Student outcomes	<p>CG1. Identify, formulate, and solve complex engineering problems by applying the principles of engineering, science, and mathematics.</p> <p>GC2. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering criteria to draw conclusions.</p>

Topics
<p>Unit I: Measurements of weight and volume</p> <p>Unit II: Density of solids and liquids</p> <p>Unit III: Specific Heat</p> <p>Unit IV: Reactions of Acids and Metals</p> <p>Unit V: Percent composition of a hydrate</p> <p>Unit VII: Proust's Law</p> <p>Unit VIII: Calculation of the empirical formula of a compound</p> <p>Unit IX: Lavoiser's Law</p>