


In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

3 credits

22.5 h + 7.5 h

Q1

Teacher(s)	Robiette Raphaël ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	This course is aimed to a synthesis of various notions related to physical organic chemistry and already introduced in the various courses from the preceding years. It also gives an introduction to some selected physico-chemical tools used in the elucidation of reaction mechanisms in organic chemistry. The main themes are: -Structure - activity relationships in organic chemistry -Electronic and sterics effects -Influence of the reaction media in organic chemistry -Stereoelectronic effects in organic chemistry
Aims	<p>The aim of this course is to introduce important notions and concepts selected in the field of physical organic chemistry. One of the goals of this course is to use those notions for a better understanding of reaction mechanisms in organic chemistry, the structure of reaction intermediates and transition states, and a deeper understanding of the molecular interactions which can influence chemical reactivity.</p> <p>-----</p> <p><i>The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".</i></p>
Evaluation methods	Due to the COVID-19 crisis, the information in this section is particularly likely to change. Written exam
Content	The course is build around the following chapter: 1. Reminders 2. Stereoelectronic effects 3. Linear Free Energy Relationships (LFER) 4. Mechanistic studies
Inline resources	Review articles as well as the slides of the course are available on moodle. https://moodleucl.uclouvain.be/course/view.php?id=7943
Bibliography	Le cours ne fait appel à aucun support particulier qui serait payant et jugé obligatoire
Other infos	Background required: knowledge of organic chemistry from the previous years (Bachelor of Chemistry) and CHM2140
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Chemistry	CHIM2M1	3		
Master [120] in Chemistry	CHIM2M	3		