


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.

5 credits

45.0 h + 10.0 h

Q1

Teacher(s)	Hautier Geoffroy ;Leysens Tom ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	A detailed study of the properties of matter and molecules is presented and completed by a discussion of chemical reactivity models. Teachers will place emphasis on microscopic versus macroscopic properties connecting both approaches through a statistical point of view.
Aims	<p>1 The course aims to guide students in completing their knowledge in physical chemistry and to apply it to concrete cases. A systematic presentation completes the education of chemical thermodynamics and kinetics acquired during the bachelor's degree.</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	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>A written exam takes place in January. During the exam, the student is able to reproduce the theory that is considered during the course, as well as to apply the course material to solve practical problems. The exam will cover all the chapters that are treated in the course.</p> <p>The respective parts of Profs. Leysens and Hautier count for 50% each.</p> <p>A similar type of evaluation is organized in september</p>
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>This course is a 5 Credit course consisting of 45h of classes given during the first term.</p> <p>Slides or available on Moodle and are obligatory. Further information and books can be recommended by the professors.</p>
Content	<p>The class has two major topics, taught respectively by Tom Leysens and Geoffroy Hautier. The part of T. Leysens focuses on crystal engineering, crystal growth and crystallization, more specifically looking at the concepts of polymorphism, chiral resolution and salt/co-crystallization using physico-chemical principles applied to crystallization.</p> <p>The part of G. Hautier</p>
Inline resources	slides available on moodle
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Master [60] in Chemistry	CHIM2M1	5		
Master [120] in Chemistry	CHIM2M	5		