

3.00 credits

0 h + 65.0 h

Q2

Teacher(s)	Robiette Raphaël ; Singleton Michael ;
Language :	French
Place of the course	Louvain-la-Neuve
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	<ul style="list-style-type: none"> <li>- Multi-step synthesis of components illustrating practical applications in the daily field: examples of insecticides (chrysanthemic acid) and herbicides</li> <li>- Spectroscopic analysis, manipulation of NMR simulation software, synthesis report and presentation of results</li> <li>- Introduction to bibliographic research on data bases and in research libraries</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>1 Learning multi-steps organic synthesis. Writing an experimental report with structural analysis.</p>
Evaluation methods	<p>Students are evaluated on the following criteria :</p> <ul style="list-style-type: none"> <li>- Continuous assessment of behavior during labs (interactions, time management, adherence to safety rules, ability to solve practical problems...)</li> <li>- laboratory notebook</li> <li>- an individual report on one of the reactions performed by the student</li> <li>- an oral presentation in the form of a poster (per group)</li> </ul> <p>The first and fourth points cannot be evaluated in the September session.</p>
Teaching methods	Laboratoires pratiques (obligatoires)
Content	<p>Synthèses multi-étapes de composés illustrant des applications pratiques dans le domaine quotidien : exemples des insecticides (acide chrysanthémique) et du terpinéol</p> <p>Réaction de polymérisation radicalaire</p> <p>Réactions organocatalysées</p> <p>Analyses spectroscopiques (RMN) et chromatographiques (GC, HPLC)</p>
Inline resources	<p>The booklet, articles on the reactions performed in the laboratory, a template for writing the report, a template for the poster and reference NMR spectra are available on the moodle platform</p> <p><a href="https://moodle.uclouvain.be/">https://moodle.uclouvain.be/</a></p>
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Chemistry	CHIM1BA	3	LCHM1141 AND LCHM1244 AND LCHM1245 AND LCHM1254	