

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	It is recommended to have acquired the knowledge and skills developed in the teaching units: LCHM1141 Chimie organique LCHM1244 Chimie organique 2 : approfondissement des concepts de base LCHM1245 Chimie organique 2 : Chimie hétéroatomique LCHM1254 Eléments de spectroscopie moléculaire Do not select LCHM1342 without LCHM1341 <i>Organic chemistry III</i> (or having passed it previously).
Main themes	- Multi-step synthesis of components illustrating practical applications in the daily field: examples of insecticides (chrysanthemic acid) and herbicides - Spectroscopic analysis, manipulation of NMR simulation software, synthesis report and presentation of results - Introduction to bibliographic research on data bases and in research libraries
Learning outcomes	At the end of this learning unit, the student is able to : 1 Learning multi-steps organic synthesis. Writing an experimental report with structural analysis.
Evaluation methods	Students are evaluated on the following criteria (with an equal weighting) : - Continuous assessment of behavior during labs (interactions, time management, adherence to safety rules, ability to solve practical problems...) - laboratory notebook - an individual report on one of the reactions performed by the student - an oral presentation in the form of a poster (per group) The first and fourth points cannot be evaluated in the September session.
Teaching methods	Laboratoires pratiques (obligatoires)
Content	Synthèses multi-étapes de composés illustrant des applications pratiques dans le domaine quotidien : exemples des insecticides (acide chrysanthémique) et du terpinéol Réaction de polymérisation radicalaire Réactions organocatalysées Analyses spectroscopiques (RMN) et chromatographiques (GC, HPLC)
Inline resources	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 https://moodle.uclouvain.be/
Faculty or entity in charge	CHIM

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