

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

0 h + 66.0 h

Q1

Teacher(s)	Dupont Christine ;Garcia Yann (coordinator) ;
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	A series of practical exercises on titration methods, gravimetry, potentiometric analysis, chromatographic and spectroscopic techniques are proposed. The student should rely on his Analytical chemistry I course and on the available literature in order to select the most appropriate reactants as well as to define relevant operating modes.
Aims	<p>- To favour the understanding of Analytical chemistry I course - To familiarize the student with the theory-experience relationship - To train the student to a professional behaviour in a chemistry laboratory - To give the student an initiative spirit for practical manipulations</p> <p>1</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>Evaluation on the quality of experimental results (/5), reports given during classes (/5), laboratory note book maintenance (/5), tests at the beginning of the labs (/5).</p> <p>A global evaluation could be organised on a selected experiment in the lab, depending on the number of students.</p>
Teaching methods	<p>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</p> <p>Laboratories</p>
Content	Laboratories on titrimetry, gravimetry, potentiometry, chromatography, spectroscopies.
Inline resources	Moodle
Bibliography	<ul style="list-style-type: none"> - Fundamentals of Analytical Chemistry, D. A. Skoog, D. M. West, F. J. Holler, S. R. Crouch, 8th ed., Thomson Brooks/Cole, 2004. - Quantitative Chemical Analysis, D. C. Harris, 8th ed., W. H. Freeman & Co., 2011 - Méthodes instrumentales d'analyse chimique et applications, G. Burgot, J. -L. Burgot, 2e ed, Lavoisier, 2006. - Exploring Chemical analysis, D. C. Harris, 5th ed., W. H. Freeman & Co., 2012 - Fascicule pour les exercices pratiques. - Littérature mise à disposition de l'étudiant.
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Chemistry	CHIM1BA	3	LCHM1111 AND LCHM1211 AND LPHY1101 AND LPHY1102	