

3.00 credits

0 h + 66.0 h

Q1

Teacher(s)	Garcia Yann ;
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.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <ul style="list-style-type: none"> - 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
Evaluation methods	<p>Evaluation :</p> <ul style="list-style-type: none"> - 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>A global evaluation can be organised on a selected experiment in the lab.</p>
Teaching methods	Laboratories
Content	<p>Practical exercises on titrimetric methods, gravimetry, potentiometric analysis, chromatographic and spectroscopic techniques.</p> <p>The exercises are presented in a succinct manner, their execution requires from the student the use of the theoretical teaching and the literature at his disposal in order to carry out in a reasoned way the choice of the reagents and to define the operating modes.</p>
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	Learning outcomes
Bachelor in Chemistry	CHIM1BA	3	LCHM1111 AND LCHM1211 AND LPHY1101 AND LPHY1102	