




4.00 credits

37.5 h

Q1

Teacher(s)	Henriet Patrick ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	<ul style="list-style-type: none"> <li>• The atomic and molecular structure of living matter</li> <li>• The fundamental principles of transformation of living matter</li> </ul>
Learning outcomes	<p><b>At the end of this learning unit, the student is able to :</b></p> <p>At the end of this teaching unit, the student is able to</p> <ol style="list-style-type: none"> <li>1                     <ul style="list-style-type: none"> <li>• Demonstrate knowledge and understanding of the essential concepts of general chemistry and organic chemistry (2.1, 11.1 Kiné - 9.1 EP)</li> <li>• Demonstrate knowledge and understanding of the structure and properties of the main biomolecules (2.1, 11.1, 11.2 Physio - 9.1 and 9.2 EP)</li> <li>• Solve exercises relating to these subjects (2.1, 11.1 Physio - 9.1 EP)</li> </ul> </li> </ol>
Evaluation methods	Assessment: 2-hour written exam (13 points per MCQ for theory and 7 points for exercises)
Teaching methods	Lectures, for a large audience (theory and exercises)
Content	(auteur - titulaire actuel) : P. Henriet 1. INTRODUCTION : AIMS, OBJECTIVES AND METHODOLOGY 2. BASIC NOTIONS : MATTER AND ENERGY 3. ELEMENTARY CONSTITUANTS : ATOMS AND MOLECULES 4. ELEMENT PROPERTIES AND ATOM STRUCTURE 5. CHEMICAL BOND AND MOLECULAR STRUCTURE ET STRUCTURE DES MOLECULES 6. CHEMICAL REACTION 7. WATER AND pH 8. CARBON COMPOUNDS AND ORGANIC FUNCTIONS 9. BIOLOGICAL MACROMOLECULES AND THEIR MONOMERS
Other infos	Course materials: syllabus and Powerpoint files projected in class This course is strictly reserved for FSM students; access is not possible for other UCLouvain students.
Faculty or entity in charge	FSM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Environmental Science and Management	ENVI2M	5		
Interdisciplinary Advanced Master in Science and Management of the Environment and Sustainable Development	ENVI2MC	5		
Bachelor in Motor skills : General	EDPH1BA	4		
Bachelor in Physiotherapy and Rehabilitation	KINE1BA	4		