

4.00 credits

30.0 h + 15.0 h

Q2

Teacher(s)	Page Melissa ;
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	<p>Main themes to cover :</p> <ol style="list-style-type: none"> 1. Introduction to metabolism 2. Bioenergetics 3. Biochemical transport phenomenon <p>Main metabolic ways :</p> <ol style="list-style-type: none"> 1. Glycolysis and hexose catabolism 2. Metabolism of glycogen and glyconeogenesis 3. Oxidation of fatty acids and biosynthesis of lipids 4. Krebs cycle 5. Electron transport, oxidative phosphorylation 6. Metabolism of amino acids, nucleotides and linked molecules. <p>Main ways of regulation.</p> <p>The exercises are divided into two complementary parts :</p> <p>One, followed in the case of CHIM BAC, consists of practical work on a specific question in biochemistry.</p> <p>The other, for all, consists of preparing, presenting and discussing, in groups, a question linked to a biochemical problem, but voluntarily carrying onto other disciplines of life sciences.</p>
Learning outcomes	
Evaluation methods	<p>For all students, evaluation includes :</p> <ol style="list-style-type: none"> 1. a written exam that will take place during the June exam session. Written exam including questions requiring precise / short answers, theoretical developments or problem solving. 2. group work, the exam type decided each year, but this can include a group presentation, this evaluation will take place during the normal term <p>For chemistry and biology students :</p> <ol style="list-style-type: none"> 1. they will also be evaluated on their participation in laboratory sessions, in which a written report is required for the completion of the evaluation.
Teaching methods	<p>The skills targeted by the course will be developed using lectures.</p> <p>Laboratory sessions are for chemistry and biology students, and not for students in veterinary science.</p>
Content	Please look to LCHM1371 for all information concerning this course.
Inline resources	Slideshows are available via the moodle platform
Bibliography	<ul style="list-style-type: none"> • Lehninger Principles of biochemistry 7th edition • Voet & Voet Biochemistry 4th Edition <p>Le cours ne fait appel à aucun support particulier qui serait payant et jugé obligatoire. Les manuels ci-dessus sont recommandés (mais pas obligatoires) sur une base facultative pour un apprentissage plus approfondi</p>
Faculty or entity in charge	CHIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Bachelor in Biology	BIOL1BA	4	LCHM1111B AND LCHM1141B AND LBIO1111	