


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

30.0 h

Q2

Teacher(s)	Collet Jean-François ;Lemaigre Frédéric (coordinator) ;
Language :	French
Place of the course	Bruxelles Woluwe
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>
Aims	<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>
Evaluation methods	<b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b> The written examination will consist of open-ended question . Students will be evaluated on their ability to synthesize and integrate multiple biochemistry data into a coherent synthesis. They must be able to describe, use and explain in precise biochemical terms the topics addressed and how a disease can result from molecular and biochemical dysfunctions.
Teaching methods	<b>Due to the COVID-19 crisis, the information in this section is particularly likely to change.</b> The teaching method consists of a lecture given in an auditorium by the different co-teachers, including many examples and illustrations.
Content	The course complements and is an immediate extension of the Metabolic Biochemistry course WMDS1215 taught in the 1st quarter. The chapters include a description of normal biochemical mechanisms, as well as illustrations of disorders that cause human pathologies. More specifically, the following topics will be addressed: Reminder of the mechanisms controlling gene expression Diseases resulting from a dysfunction in gene expression Oncogenes and tumor suppressors; dysfunction of signalling pathways in cancer Normal and pathological metabolism of iron Normal and pathological metabolism of heme Biochemical mechanisms of blood coagulation Lipoprotein metabolism Metabolism of purines and pyrimidines Amino acid metabolism.
Inline resources	The slides presented during the course, which cover the subject in a comprehensive way, are available on <a href="http://moodleucl.uclouvain.be/">http://moodleucl.uclouvain.be/</a>
Bibliography	Support: Manuels de biochimie. Références: - Biochemistry, Champe P.C., Harvey R.A, Ferrier D.R., Lippincott's Illustrated Reviews, Lippincott Williams & Wilkins - Principles of Biochemistry, Horton R.H., Prentice Hall Textbook of Biochemistry with Clinical Correlations, 7ème édition, Thomas M. Devlin, Wiley
Faculty or entity in charge	MED

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Biomedicine	<a href="#">SBIM1BA</a>	3	WMD1120 AND WMD1106 AND <a href="#">WFARM1221S</a> AND <a href="#">WSBIM1227</a> AND <a href="#">WFARM1282</a> AND <a href="#">WFARM1247</a> AND <a href="#">WSBIM1201T</a>	
Bachelor in Medecine	<a href="#">MD1BA</a>	3	<a href="#">WMEDE1101</a> AND <a href="#">WMDS1111</a> AND <a href="#">WMDS1109</a>	