UCLouvain

2019

wmds1215

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.

6 credits 50.0 h Q1

| Teacher(s) | Bommer Guido ;Collet Jean-François ;Rider Mark (coordinator) ; | | | | |
|-----------------------------|--|--|--|--|--|
| Language : | French | | | | |
| Place of the course | Bruxelles Woluwe | | | | |
| Prerequisites | 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. | | | | |
| Aims | 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". | | | | |
| Evaluation methods | Due to the COVID-19 crisis, the information in this section is particularly likely to change. The written examination will consist in part of a multiple-choice questions and in part open-ended questions. Students will be evaluated on their ability to integrate biochemical concepts into a coherent synthesis. They must be able to describe, use and explain in precise biochemical terms all aspects addressed in the course. Exam duration: 3 h. There are no negative points or weighting according to the questions and chapters of the subject. However, when a student has a final mark between 9/20 and 10/20 after correction, the lecturers review together the exam copy to decide whether the mark should be rounded down or up. It is therefore a complete re-evaluation of the exam copy by the 3 lecturers. If the conclusion is that the answers are insufficient, the score will be rounded down. | | | | |
| Teaching methods | Due to the COVID-19 crisis, the information in this section is particularly likely to change. Formal lectures | | | | |
| Content | The main objective of this course is a comprehensive understanding at the molecular level of chemical processes in living organisms. Therefore, this course on Metabolic Biochemistry constitutes the stepping stone for the course on Human Biochemistry. Content: Reminder of the principles of thermodynamics Structure-function relationships of haemoglobin Introduction to enzymes Principles of enzyme kinetics Enzyme mechanisms Principles of metabolic control Glycolysis Glycogen metabolism The tricarboxylate cycle (Krebs cycle) Electron transport and oxidative phosphorylation Amino acid metabolism Fatty acid metabolism Other pathways of sugar metabolism | | | | |
| Inline resources | There is no formal syllabus ! PDF versions of slides presented in the course, which cover the subject in a comprehensive way, will be made available on MoodleUCL (https://moodleucl.uclouvain.be/). In addition, a tablet will be used to explain certain aspects of the course. The "Tablet" PDF versions of the PowerPoint files will also be made available to students via MoodleUCL. | | | | |
| Bibliography | Voet et Voet "Biochimie" 2e édition 2007, traduction de la 3e édition américaine par Guy Rousseau et Lionel Domenjoud Textbook of Biochemistry with Clinical Correlations, 7ème édition, Thomas M. Devlin | | | | |
| Faculty or entity in charge | MED | | | | |

| Programmes containing this learning unit (UE) | | | | | |
|---|---------|---------|--|------|--|
| Program title | Acronym | Credits | Prerequisite | Aims | |
| Bachelor in Medecine | MD1BA | 6 | WMEDE1101 AND WMDS1111 AND WMDS1109 | هر | |