

3.0 credits

30.0 h

2q

Teacher(s) :	Bontemps Françoise (coordinator) ; Leloup Gaëtane ;
Language :	Français
Place of the course	Bruxelles Woluwe
Prerequisites :	Basic knowledge in general biochemistry, cellular and molecular biology and dental histology.
Main themes :	The program focuses on intermediary metabolism and its adaptation to various physiological situations (exercise, fasting, diabetes), on mechanisms that control blood fluidity or coagulation, regulation of blood pH, metabolism of ions essentials for the formation of teeth, inflammatory response, biochemistry of saliva, biochemistry of mineralized and connective tissues of the mouth area.
Aims :	To introduce the students to human biochemistry, including biochemistry of the oral cavity, and to provide them with bases required for the study of pathology in subsequent years. <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 :	Written exam. Examples of questions are regularly given.
Teaching methods :	Teaching methods: lecture courses essentially.
Content :	The human biochemistry course includes: (1) Metabolic pathways: nucleotides, cholesterol and lipoproteins, integration and adaptation to various nutritional and hormonal states. (2) Blood biochemistry: coagulation and fibrinolysis, regulation of blood pH and acido-basic disorders. (3) Calcium metabolism and its hormonal control. (4) Inflammatory response (5) Metabolism of mineralized tissues (6) Biochemical process of caries (glucidic metabolism of bacteria, salivary function, and fluorine metabolism in dental plaque and mineralized tissues)
Other infos :	Support : Detailed contents of courses, copies of transparents and PowerPoint slides used during courses, textbooks of biochemistry available in library.
Cycle and year of study :	> Bachelor in Dentistry
Faculty or entity in charge:	MDEN