

10 credits

75.0 h + 25.0 h

Q1

Teacher(s)	Demoulin Jean Baptiste ;Kienlen-Campard Pascal ;Many Marie-Christine ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	In a first part of the course, the cell is studied by closely associating morphology and function. The diversity and evolution of the living is first tackled by the study of meiosis, fertilization and Mendelian genetics. The study of animal evolution from the first animals to modern Man is based on arguments of anatomy and compared embryology illustrating the principle « ontogeny recapitulates phylogeny ».
Aims	<p>After this course, students should understand the basis of life on Earth and be able to answer the following key questions: what are living organisms, what do they have in common, and what differentiates them.</p> <p>These lectures constitute a framework that will be developed in more detailed courses in the following years, with a special focus on cellular and molecular biology, Mendelian genetics and evolution from bacteria to modern Man.</p> <p>Those aims try to develop qualities of intellectual curiosity, observation, reasoning, synthesis, scientific rigour, oral, written and iconographic expression, and finally of self-learning, stimulating the consultation of books, scientific reviews, and informatics materials (CD-Rom, websites).</p> <p>-----</p> <p><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></p>
Evaluation methods	Assessment: Written exam.
Teaching methods	The course includes lectures during which the diagrams will be drawn together with the students. During practical works, the students will see on screen everything they were taught in theoretical courses: slides and films' showings and examination of histological cuts. Additional support (slideshow, exercises, forum) is available on a iCampus website.
Content	Contents: Introduction: principles of organization of the biosphere Chapter 1: The chemistry of life Chapter 2: The cell Chapter 3: Reproduction and genetics Chapter 4: Evolution Chapter 5: Biological diversity through evolution Chapter 6: Scientific ecology
Other infos	Supervision: The supervision of practical courses is organized by work managers and assistants. Tests are carried out and corrected each week. DENT11BA 1st year of Bachelor in dentistry (9 credits) Compulsory FARM11BA 1st year of Bachelor in pharmaceutical sciences (9 credits) Compulsory SBIM11BA 1st year of Bachelor in Biomedical sciences (10 credits) Compulsory
Faculty or entity in charge	MED

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Aims
Bachelor in Biomedicine	SBIM1BA	10		