


3.00 credits	45.0 h	Q1
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Teacher(s)	Anantharajah Ahalieyah ;Bogaerts Pierre ;Dessilly Géraldine ;Montesinos Maria Isabel ;Schohy Anaïs (coordinator) ;Zorzi Giulia ;
Language :	French
Place of the course	Bruxelles Woluwe
Main themes	General themes In the first part of the course, fundamental notions of virology are thoroughly revised: virus definition, structure of viral particles and classification, study of the replication of different groups of viruses, critical evaluation of virological methods, viral therapeutics (immunisation, serotherapy, antivirals). In the second part certain viruses, which are important in human pathology, are systematically reviewed.
Learning outcomes	At the end of this learning unit, the student is able to : 1 To give to the student a training in general virology and in medical virology
Content	In the first part of the course, the fundamental notions are reviewed in depth: structures of viral particles and classification, in-depth example of the virus replication cycle, introduction to molecular biology techniques applied in virology, antiviral therapeutics: vaccination, serotherapy, antiviral drugs. The second part of the course is an in-depth study of certain viruses, emphasizing the relationships which exist between the viral structure and mode of replication on the one hand and the pathology, epidemiology on the other hand, the diagnosis and possible treatment, including resistance to antivirals: Viral hepatitis, Herpesviridae, Diagnosis and monitoring of retrovirus infections, Respiratory infections: SARS-CoV-2 and influenza viruses, Monkeypox virus, Viruses and pregnancy , Viruses and Immunosuppression, Resistance to antivirals.
Other infos	Prerequisite is to have followed a basic course in virology (microbiology in medecine, WMEDS1313, virology in pharmacy, WFARM1306, or microbiology in dentistry, WDENT1330) 45 hours of practical exercises are only intended for doctors and pharmacists specialising in laboratory medicine. Oral exam with written preparation. The course is taught annually: 1st semester 2 hours/week.
Faculty or entity in charge	SBIM

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Advanced Master in Clinical Biology	BCMM2MC	4		
Advanced Master in Clinical Biology	BICL2MC	3		