


2.00 credits

22.5 h

Q1

Teacher(s)	Alonso Alice (compensates Vanclooster Marnik) ;Bielders Charles ;Goosse Hugues ;Vanclooster Marnik ;
Language :	English > French-friendly
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	<p>The examination is organised in examination sessions. It is a closed book written examination. The timetable of the examination is set by the AGRO Faculty secretariat.</p> <p>The examination is organised, by default, in French. Students who wish to do so may take the examination in English. In the latter case, the student requests permission to conduct the exam in English from the course coordinator by email (marnik.vanclooster@uclouvain.be) at least 48 hours before the start of the exam.</p> <p>For LBIR1328A (2 ECTS): Each mark for each part of each teacher is equally distributed in the examination mark, with the condition that the student obtains at least 6/20 for each part. If this condition is not met, the final mark will be equal to the mark of the part for which the student has obtained the lowest mark.</p> <p>In a second session, the mark from the successful parts of the first session are automatically considered when the student has obtained at least 14/20 for those successful parts.</p>
Teaching methods	<p>Theoretical course : Lectures in audience.</p> <p>Due to lecture room capacity limitations related to the COVID crisis, some part of the course can be organised at distance.</p>
Content	<p><u>Bio-climatology</u></p> <p>Exchange of heat and mass in the boundary layer of the atmosphere, inside plant communities and in the top layer of the soil.</p> <p>Mechanisms of climate formation: atmospheric structure, vertical profiles in the lower layers, lateral movement, atmospheric circulation, clouds and precipitation, greenhouse effect, effects of landscape elements, dynamic and thermal action of relief and vegetation.</p> <p>Influence of human activities on climate and impacts of global climate change.</p> <p><u>Hydrology</u></p> <p>Water management issues at the plot and watershed scale.</p> <p>The different components of the hydrological cycle (rain, infiltration, runoff, drainage, hypodermic flow, evapotranspiration): process, mathematical description, methods of measurement and interpretation.</p>
Inline resources	<p>The slides and course comments are available on the MOODLE website of the course.</p> <p>Example exam questions are available on the MOODLE site of the course at least 3 weeks before the start of the examination session.</p>
Bibliography	<p>Syllabus : Notes du cours LBIR1328 Climatologie et hydrologie appliquée à l'agronomie et l'environnement Partie I. Climatologie, Hugues Goosse " In, 158. Louvain-la-Neuve, Belgique: Université catholique de Louvain.</p> <p>Ouvrage de référence : Musy, A. 2004. « Hydrologie. Une science de la nature. » Presses polytechniques et universitaires romandes. ISBN : 2-88074-546-2.</p>
Other infos	<p>This course is taught in English, but the support of the course (syllabus, slights) is in French.</p> <p>Examination can be organised in French or English</p>
Faculty or entity in charge	AGRO

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Master [120] in Environmental Science and Management	ENVI2M	2		
Bachelor in Bioengineering	BIR1BA	2		