



5.00 credits

30.0 h

Q2

Teacher(s)	Ragone Francesco ;Van Oost Kristof ;
Language :	French
Place of the course	Louvain-la-Neuve
Learning outcomes	
Evaluation methods	<p>The learning outcomes are:</p> <ul style="list-style-type: none"> <li>• Understand the main characteristics of the physics of the climate system</li> <li>• Understand the causes and effects of climate change</li> <li>• To put into perspective the contemporary scientific debates in the field</li> <li>• Know how to conduct a scientific reasoning based on the contents of the theoretical course</li> </ul> <p>The evaluation consists of a written exam.</p>
Teaching methods	The course is organized into 2 learning activities: (1) lectures and (2) readings of scientific articles.
Content	<p>The course focuses on climate and its changes:</p> <ul style="list-style-type: none"> <li>• The radiative balance</li> <li>• The causes and variations of climate</li> <li>• The traces and lessons of the past</li> <li>• Recent climate change, its sources</li> <li>• Multiple and spatially heterogeneous effects</li> <li>• Mitigating and adapting to climate change</li> </ul> <p>The course has the dual objective of acquiring a basic knowledge of climate change, and becoming familiar with the multiple effects and adaptations.</p>
Inline resources	The teaching materials will be available on Moodle
Bibliography	Global Physical Climatology. D.L. Hartmann, Elsevier 2016; Climats, Passé, présent, futur. M.-A. Mélières & C. Marechal, Belin 2020; Climate and the Oceans. G.K. Vallis, Princeton Primers in Climate 2011.
Faculty or entity in charge	GEOG

<b>Programmes containing this learning unit (UE)</b>				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Scientific Culture	<a href="#">MINCULTS</a>	5		
Minor in Geography	<a href="#">MINGEOG</a>	5		
Bachelor in Geography : General	<a href="#">GEOG1BA</a>	5		