



6.00 credits

30.0 h + 60.0 h

Q2

Teacher(s)	Vanacker Veerle ;
Language :	French > English-friendly
Place of the course	Louvain-la-Neuve
Prerequisites	<i>The prerequisite(s) for this Teaching Unit (Unité d'enseignement – UE) for the programmes/courses that offer this Teaching Unit are specified at the end of this sheet.</i>
Main themes	This course on historical geology discusses the processes and geological events that occurred throughout Earth's history. The practicals are oriented towards the interpretation of the geological maps of Wallonia, and the analysis of trimensional structures using geological cross-sections, as well as the macro- and microscopic determination of rocks, minerals and fossils.
Learning outcomes	<p>At the end of this learning unit, the student is able to :</p> <p>1 The course aims to give an overview of various geological concepts that are at the foundation of earth system sciences, and presents applications of these concepts that are relevant for natural resource management.</p>
Evaluation methods	<p>The evaluation is based on a written exam that complements the continuous evaluation during the semester. The written exam will be in the form of open questions. The continuous evaluation will take place during the practical sessions, and aims to evaluate the students' capacity to apply their knowledge to identify rock, mineral and fossil specimens, and to interpret geological maps by using structural schemes and geological transects.</p> <p>The final grade is based on the written exam (50%) and the continuous evaluation (50%).</p>
Teaching methods	The teaching activities include 12 lectures with active participation of the students, short individual interventions by the students (with presentation of their favorite fossil), and 12 learning sessions with exercises and practical work.
Content	<p>This course covers the history of our planet, and presents a chronology of the geological time including the major geological and paleo-geographical events and biological evolution. The course also resumes a number of geological concepts laying the foundations of current paradigms in earth sciences.</p> <p>During the practical exercises, we will discover geological maps, and read and interpret them in 3D using geological transects. We will also look into the nature of geological formation, and determine rock, mineral and fossil specimens.</p>
Inline resources	https://moodle.uclouvain.be/course/view.php?id=1922
Other infos	<p>The participation to the practical exercises is mandatory. These are organized only once during an academic year. It is impossible to redo them in the second session.</p> <p>The course LGEO1252B complements the material presented in LGEO1251, and includes field visits of exceptional geological sites in Belgium.</p>
Faculty or entity in charge	GEOG

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Scientific Culture	MINCULTS	6		
Minor in Geography	MINGEOG	6		
Bachelor in Geography : General	GEOG1BA	6	LBIR1130	