

5.00 credits

Q2

Teacher(s)	Vanacker Veerle ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	Topics treated in lectures include : - the constituent minerals of rocks - the different types of rocks and their mode of occurrence - the mode of formation of these rocks by magmatic, sedimentary and metamorphic processes - the deformation of the earth's crust and the resulting structures, at all scales - the chronological criteria used to reconstruct the history of the earth's crust - the geology of Belgium and neighbouring areas. The practical classes are devoted to : - geological map-reading and three-dimensional interpretation using cross-sections - macroscopic identification of rocks and their forming minerals.
Learning outcomes	
Evaluation methods	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 and multiple choice questions. The continuous evaluation will take place during the practical sessions, and evaluates (i) the student's capacity to apply their knowledge to identify rock, mineral, and fossil specimen, and (ii) the scientific content and elaboration of the leaflet.
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 4 learning sessions with exercises and practical work. This will be followed by the preparation of a leaflet on one of the rocks, minerals or fossils of the scientific collection of UCLouvain. It is possible to follow the lectures via Teams (virtual class live streaming).
Content	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. During the practical exercises, we will determine rock, mineral and fossil specimens. This will be followed by the elaboration of a leaflet on a rock, mineral or fossil of the scientific collection of UCLouvain.
Inline resources	<a href="https://moodleucl.uclouvain.be/course/view.php?id=9022">https://moodleucl.uclouvain.be/course/view.php?id=9022</a>
Other infos	The participation to the 4 sessions of practical exercises is mandatory. These are organized only once during an academic year. It is impossible to redo them in the second session. The preparation of the scientific leaflet is based on supervised individual research.
Faculty or entity in charge	GEOG

**Programmes containing this learning unit (UE)**

Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Culture and Creation	<a href="#">MINCUCREA</a>	5		