

5.00 credits

30.0 h + 30.0 h

Q1

Teacher(s)	Vanacker Veerle ;
Language :	French
Place of the course	Louvain-la-Neuve
Main themes	This course introduces the process, materials and landforms of the main geomorphic systems. First, the exogenous process and their relative intensities will be reviewed for different climatic zones. Then the production of soil and unconsolidated materials through weathering will be discussed and finally, the main geomorphic systems will be reviewed such as hillslopes, rivers, glaciers and coasts.
Learning outcomes	At the end of this learning unit, the student is able to : 1 This course introduces the concepts of geomorphology i.e. the interaction between processes, materials and land forms. At the end of the course students should be able to: Describe the most important interactions between process, materials and land forms within the main geomorphic systems (hillslopes, rivers, glaciers and coasts) Interpret the morphology and the dominant processes in a given landscape using topographic maps and aerial photographs Represent the spatial variation in soil characteristics of a hillslope and its impacts on the infiltration rates based on the interpretation of data collected in the field.
Evaluation methods	Written exam counts for 2/3 of the final grade. Course work counts for a 1/3 of the final grade
Teaching methods	There are 9 lectures, 1 fieldwork and 10 sessions of practical work
Content	This is an introductory course in geomorphology, one of the main disciplines in physical geography. The lectures introduce the major physical environments such as rivers, glaciers, deserts and coasts. Practical work focuses on interpretation of landscape forms and dominant processes from topographical maps and aerial photographs as well as field data collection and analysis.
Inline resources	All slides and guidelines for the practical work are available on Moodle
Bibliography	Joseph Holden 2017 An Introduction to physical geography and the environment. Fourth edition. Pearson Prentice Hall Ressources web du livre: www.pearsoned.co.uk/holden Frank Ahnert 1998. An introduction to geomorphology. Arnold Publishers, London. ISBN 0 340 69259 Richard Huggett 2003. Fundamentals of Geomorphology. Routledge Fundamentals of physical geography.
Faculty or entity in charge	GEOG

Programmes containing this learning unit (UE)				
Program title	Acronym	Credits	Prerequisite	Learning outcomes
Minor in Scientific Culture	MINCULTS	5		
Minor in Geography	MINGEOG	5		
Bachelor in Geography : General	GEOG1BA	5		