LGEO1331

2015-2016

Geomorphology

5.0 credits	30.0 h + 30.0 h	2q

Teacher(s) :	van Wesemael Bas ; Vanacker Veerle ;
Language :	Français
Place of the course	Louvain-la-Neuve
Prerequisites :	*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.*
Main themes :	Prerequisites: The course uses the following material: The main lines of atmospheric circulation The endogeneous processes The different types of rocks Elementary notion of exogeneous processes: alteration, hydrological cycle, terrain slides, erosion, soils and ecosystems. Lectures: (8 X 2hrs) 1: introduction (preparation time: 2hrs) 2: Slope processes and its materials (preparation time: 3hrs) 3: Weathering (preparation time: 3hrs) 4: The relation between morphology, soils and surfaces (preparation time: 3hrs) 5: Water erosion (preparation time: 3hrs) 6: Land slides (preparation time: 3 hrs) 7: Slope development as a result of denudation (preparation time: 3hrs) 8: Questions and answers (preparation time: 2hrs) Practical work: The sessions are organised in 8 sessions of 3 hours; a day of field work in one group of students under the supervision of an assistant. PW1/2: Geomorphological analysis from topographic maps PW3: Use of digital terrain models (DTM) in geomorphology PW4: Field preparation PW5: Field work PW6: Analysis of field data PW7& : Geomorphological analysis from aerial photos Personnal work Literature review (16 hrs) Field analysis report (20 hrs) With supervision, the possibility of consultations (during the weeks before the deadline dates). Notions acquired: Bibliographic research Capacity to analyise the results of sampling and to describe them clearly in a report.
Aims :	Knowledge: To understand the interaction between morphology, the materials and the exogeneous processes on slopes. Skills: To acquire experience in field work, sampling, sample analysis (A level). To acquire experience in interpretation of material expression and the processes in the scenery morphology from maps and aerial pictures (B level). To be capable of analyzing and interpreting the results of a field campaign. *The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s) can be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit".*
Faculty or entity in charge:	GEOG

Programmes / formations proposant cette unité d'enseignement (UE)

Intitulé du programme	Sigle	Credits	Prerequis	Acquis d'apprentissage
Master [120] in Geography : General	GEOG2M	5	-	
Minor in Geography	LGEOG100I	5	-	
Bachelor in Geography : General	GEOG1BA	5	LGEO1251 **and** LGEO1231	
Master [120] in Geography : Climatology	CLIM2M	5	-	
Additionnal module in Geography	LGEOG100P	5	-	