




5.00 credits

30.0 h + 30.0 h

Q1

|                             |   |
|-----------------------------|---|
| Teacher(s)                  | van Wesemael Bas ;  |
| 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           | <p><b>At the end of this learning unit, the student is able to :</b></p> <p>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.</p> |
| Evaluation methods          | Written exam, course work counts for a third of the final grade   |
| Teaching methods            | There are 8 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                | <ul style="list-style-type: none"> <li>• Joseph Holden (ed) 2008 An Introduction to physical geography and the environment. Second edition. Pearson Prentice Hall ISBN 978 0 13 175304 4. Ressources web du livre: <a href="http://www.pearsoned.co.uk/holden">www.pearsoned.co.uk/holden</a></li> <li>• Frank Ahnert 1998. An introduction to geomorphology. Arnold Publishers, London. ISBN 0 340 69259</li> <li>• 'Fundamentals of the Physical Environment' D. Briggs et al. Two copies are available in the library (BSE).</li> </ul>  |
| 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 :<br>General                   | <a href="#">GEOG1BA</a>  | 5       |              |  |