

**Cycle view of the study programme**

B1 Or Th Pr Au Cr

**Compulsory courses (B1 : 16Cr, B2 : 24Cr)**

**Core courses common to the study paths**

GEOG0238-1	<i>Geographical Information Systems</i> - JeanPaul DONNAY	B1	Q2	30	30	-	<b>6</b>
GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	B1	Q2	10	20	-	<b>3</b>
SPOL2209-3	<i>Environmental and land policies</i> - Sophie HANSON	B1	Q1	30	-	-	<b>2</b>
GEOG2028-1	<i>Spatial planning</i> - JeanMarie HALLEUX - [1d FW]	B1	Q1	15	15	[+]	<b>3</b>
GEOG0622-1	<i>Project management</i> - JeanPaul DONNAY	B1	Q2	10	10	-	<b>2</b>
GEOG0025-1	<i>Introduction to research</i> - JeanPaul DONNAY	B2	Q1	10	10	-	<b>2</b>
SMEM0033-1	<i>Final thesis</i> - COLLÉGIALITÉ	B2	TA	-	-	-	<b>22</b>

**Optional courses (B1 : 30Cr, B2 : 20Cr)**

**Courses specific to the Study Path**

Choose courses, with the approval of the Jury, totalling 30 credits among : (B1 : 30Cr)

**Courses organized each year**

CLIM0022-1	<i>Atmospheric dynamics</i> - Xavier FETTWEIS	B1	Q2	20	10	-	<b>4</b>
CLIM0002-1	<i>Climate models : principles and applications</i> - Louis FRANÇOIS	B1	Q2	45	15	-	<b>6</b>
<b>Corequisite :</b> CLIM0023-1 - Introduction à la modélisation en géomorphologie et climatologie							
GEOG0242-2	<i>Applied Geomorphology and Continental Deposits Study Methods</i> - Geoffrey HOUBRECHTS - [2d FW]	B1	Q1	20	10	[+]	<b>4</b>
GEOL0006-1	<i>Rocks and sedimentary processes</i> - Frédéric BOULVAIN - [1d FW]	B1	Q1	30	-	[+]	<b>3</b>
GEOL1026-2	<i>Complement of geology, 1st part : elements of mineralogy</i> - Frédéric HATERT	B1	Q2	20	20	-	<b>3</b>
MATH0221-4	<i>Analysis of time series</i> - Pierre MAGAIN, Guy MUNHOVEN	B1	Q2	15	15	-	<b>3</b>
GEOG2012-1	<i>Coastal geomorphology</i> - Aurelia HUBERT - [2d FW]	B1	Q2	20	10	[+]	<b>3</b>
GEOL0282-1	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	B1	Q1	20	20	-	<b>3</b>
GEOL0013-3	<i>Hydrogeology</i> - Alain DASSARGUES	B1	Q1	20	20	-	<b>4</b>
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment</i> - Eric DELHEZ	B1	Q1	20	20	-	<b>4</b>
PHYS0209-2	<i>Numerical methods in physics</i> - Alejandro SILHANEK	B1	Q1	15	20	-	<b>3</b>
GEOG0212-1	<i>Pedology</i> - Gilles COLINET - [1d FW]	B1	Q2	15	8	[+]	<b>3</b>
OCEA0075-2	<i>Physical oceanography and marine meteorology</i> - JeanMarie BECKERS	B1	Q1	30	15	-	<b>4</b>

**Courses held in odd years (2017-2018)**

GEOG0633-1	<i>Rivers dynamics</i> - Geoffrey HOUBRECHTS - [4d FW] (Odd years)	B1	Q1	15	25	[+]	<b>6</b>
CLIM0007-2	<i>Greenhouse gases - Measures and instruments to mitigate climate change</i> - Emmanuel MAHIEU - [3d FW] (Odd years)	B1	Q1	30	-	[+]	<b>3</b>
CLIM0016-1	<i>Remote sensing applied to climatology</i> - Nicolas CLERBAUX (Odd years)	B1	Q1	20	10	-	<b>3</b>

**Courses held in even years (2016-2017)**

GEOG0036-1	<i>Morphotectonics and volcanism</i> - Alain DEMOULIN - [2d FW] (Even years)	B1	Q2	25	15	[+]	<b>4</b>
GEOG0264-1	<i>Geomorphological survey</i> - Geoffrey HOUBRECHTS, Aurelia HUBERT	B1	Q1	-	15	[+]	<b>6</b>

- [4d FW] (Even years)

GEOG0642-1	<i>Dynamic geomorphology</i> - Alain DEMOULIN, Geoffrey HOUBRECHTS, Aurelia HUBERT - [3d FW] (Even years)	B1	Q1	15	15	[+]	<b>4</b>
ENVT3056-1	<i>Agrometeorology</i> (Even years) - <i>Agrometeorology Basis</i> - Bernard TYCHON - <i>Applied Agrometeorology</i> - Bernard TYCHON - [1d FW]	B1	Q2	15	15	-	<b>10</b>
				45	15	[+]	
CLIM0021-1	<i>Topoclimatology</i> (Even years) - <i>Topoclimatology</i> - Michel ERPICUM - [3d FW] - <i>Urban Climatology</i> - Michel ERPICUM - <i>Zonal Climatology</i> - Michel ERPICUM	B1	Q2	15	15	[+]	<b>10</b>
				20	15	-	
				15	30	-	

[...] In agreement with the Jury, choose courses not already chosen for a total of 20 ECTS from the optional courses of the block 1.

#### Single focus (B1 : 14Cr, B2 : 16Cr)

##### Research Focus (B1 : 14Cr, B2 : 16Cr)

CLIM0023-1	<i>Introduction to modeling in geomorphology and climatology</i> - Xavier FETTWEIS, Aurelia HUBERT	B1	Q1	30	30	-	<b>6</b>
CLIM0003-3	<i>Climate changes and impacts</i> - Louis FRANÇOIS, Guy MUNHOVEN	B1	TA	15	45	-	<b>5</b>
GEOG0042-1	<i>Special issues on physical geography</i> - Matthias VANMAERCKE	B1	Q2	20	10	-	<b>3</b>

In agreement with the Jury, choose courses for a total of 16 credits from : (B2 : 16Cr)

CLIM0005-1	<i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM] <b>Prerequisite :</b> CLIM0002-1 - Modèles climatiques : principes et applications CLIM0022-1 - Dynamique atmosphérique  <i>Notice :</i> Collegiality = Royal Military School and Meteorological Wing	B2	Q2	-	-	[+]	<b>6</b>
CLIM0015-1	<i>Programming in service of climatology</i> - Xavier FETTWEIS <b>Prerequisite :</b> CLIM0023-1 - Introduction à la modélisation en géomorphologie et climatologie	B2	Q1	15	30	-	<b>3</b>
CLIM0017-2	<i>Climate modelling</i> - <i>Part 1 : Atmosphere</i> - Xavier FETTWEIS - <i>Part 2 : Vegetation and carbon cycle</i> - Louis FRANÇOIS <b>Prerequisite :</b> CLIM0002-1 - Modèles climatiques : principes et applications <b>Corequisite :</b> CLIM0015-1 - Programmation au service de la climatologie	B2	Q1	10	20	-	<b>7</b>
				15	25	-	
SSTG0050-1	<i>Placement in geomorphology ULg</i> - COLLÉGIALITÉ	B2	Q1	-	-	-	<b>7</b>
GEOG0632-1	<i>Hillslope processes</i> - Aurelia HUBERT - [1d FW]	B2	Q1	15	-	[+]	<b>3</b>
GEOG0263-1	<i>Applied spatial analysis project</i> - Yves CORNET	B2	Q1	15	15	-	<b>6</b>

## Additional ECTS Master in geography : climatology, research focus

#### Optional courses (B0 : 24Cr)

Depending on the student's previous training and with the agreement of the jury, choose, if necessary, courses for a maximum of 24 credits among the following : (B0 : 24Cr)

GEOG0630-5	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	B0	Q1	15	5	[+]	<b>3</b>
MATH2007-1	<i>Mathematics</i> - Françoise BASTIN	B0	Q1	30	40	-	<b>8</b>
PHYS0188-7	<i>Physics</i> - Nicolas VANDEWALLE	B0	Q1	30	40	-	<b>8</b>

GEOG2020-1	<i>Elements of meteorology</i> - Michel ERPICUM - [2d FW]	B0	Q2	20	15	[+]	<b>3</b>
GEOG2025-1	<i>Topoclimatology</i> - Michel ERPICUM	B0	Q2	15	15	-	<b>2</b>
GEOG0217-2	<i>Hydrology</i> - Geoffrey HOUBRECHTS, Matthias VANMAERCKE - [2d FW]	B0	Q1	15	10	[+]	<b>3</b>
GEOG2019-1	<i>Quaternary Study</i> - Alain DEMOULIN - [2d FW]	B0	Q2	20	-	[+]	<b>3</b>
GEOG0204-2	<i>Fluvial geomorphology and hydrography</i> - Geoffrey HOUBRECHTS - [3d FW]	B0	Q2	20	15	[+]	<b>3</b>