

**Cycle view of the study programme**

B1 Or Th Pr Au Cr

**Compulsory courses (B1 : 46Cr, B2 : 26Cr)**

**Core courses common to the study paths**

GEOG0057-1	<i>Operational GIS</i> - François JONARD	B1	Q1	30	30	-	5
GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	B1	Q2	10	20	-	3
GEOG0042-2	<i>Geomorphic challenges in a changing world (english language)</i> - Alain DEMOULIN, Geoffrey HOUBRECHTS, Aurelia HUBERT	B1	Q2	10	20	-	3
GEOG2028-1	<i>Introduction to spatial planning</i> - JeanMarie HALLEUX - [1d FW]	B1	Q1	15	15	[+]	3
SMEM0043-1	<i>Final thesis</i> - COLLÉGIALITÉ	B2	TA	-	-	-	20
SSTG0060-1	<i>Internships</i> - COLLÉGIALITÉ, Xavier FETTWEIS, François GEMENNE, Aurelia HUBERT - [6w Internship]	B2	TA	-	-	[+]	6

**Courses specific to the Study Path**

GEOG0660-1	<i>Introduction to modelling in physical geography - Partim 1 : Environment (english language)</i> - Xavier FETTWEIS	B1	Q1	20	15	-	3
SPAT0024-3	<i>Meteorology, Part 1</i> - Louis FRANÇOIS	B1	Q1	20	10	-	3
CLIM0002-1	<i>Climate modelling, Part 1 (english language)</i> - Louis FRANÇOIS	B1	Q2	15	7	-	2
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment (english language)</i> - Marilaure GRÉGOIRE	B1	Q1	20	20	-	3
GEOG2052-1	<i>Field surveys in geomorphology and climatology</i> - Geoffrey HOUBRECHTS - [5d FW]	B1	Q2	-	15	[+]	5
GEOG0661-1	<i>Earth surface processes (english language)</i> - Aurelia HUBERT	B1	Q2	20	20	-	4
SPAT0027-3	<i>Climate change and impacts (english language)</i> - Louis FRANÇOIS, Guy MUNHOVEN	B1	TA	30	30	-	5
GEOG0662-1	<i>International politics of climate change (english language)</i> - François GEMENNE	B1	Q1	24	12	-	4
RISQ2025-1	<i>Migration and displacement of people following environmental degradation and shocks (english language)</i> - Caroline ZICKGRAF	B1	Q2	24	-	-	3

**Optional courses (B1 : 14Cr, B2 : 34Cr)**

**Courses specific to the Study Path**

In agreement with the Jury, choose courses not already selected for a total of 10 credits from the lists below (B1 : 10Cr)

**Climatology**

ENVT3065-2	<i>Sustainability challenges, Partim 1 - Les enjeux climat et énergie (english language)</i> - Bertrand CORNÉLUSSE, Xavier FETTWEIS	B1	Q1	16	16	-	3
MATH0508-1	<i>Time series analysis in climatology (english language)</i> - Samuel NICOLAY	B1	Q1	20	10	-	3
CLIM0016-1	<i>Remote sensing applied to climatology (english language)</i> - Nicolas CLERBAUX (Odd years)	B1	Q2	20	10	-	3
CLIM0007-2	<i>Greenhouse gases - Measures and instruments to mitigate climate change (english language)</i> - Emmanuel MAHIEU - [3d FW] (Odd years)	B1	Q1	30	-	[+]	4
ENVT3056-1	<i>Agrometeorology (Even years)</i> - <i>Agrometeorology Basis</i> - Bernard TYCHON - <i>Applied Agrometeorology</i> - Bernard TYCHON - [1d FW]	B1	Q2	15 45	15 15	- [+]	7

**Basic courses**

GEOG2020-1	<i>Elements of meteorology</i> - Sébastien DOUTRELOUP,	B1	Q2	20	15	[+]	3
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ETTWEIS - [2d FW]

GEOG0630-5	<i>Climatic geomorphology, Part A</i> - Aurelia HUBERT - [4d FW]	B1	Q1	15	10	[+]	3
GEOG0055-1	<i>Environmental geography</i> (english language) - Part 1 - Pierre OZER, Serge SCHMITZ - Part 2 - Pierre OZER, Serge SCHMITZ - [6d FW]	B1	TA	24	6	-	5
				-	6	[+]	

#### Geomorphology and environmental risks

GEOG0242-2	<i>Applied Geomorphology and Continental Deposits Study Methods</i> - Geoffrey HOUBRECHTS - [3d FW]	B1	Q1	20	20	[+]	5
ENVT3060-1	<i>Very high resolution remote sensing applied to the management of natural environments</i> - Philippe LEJEUNE	B1	Q1	18	36	-	5

In agreement with the Jury, choose one of the three placements below (B2 : 8Cr)

CLIM0005-1	<i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM] <i>Notice</i> : Collegiality = Royal Military School and Meteorological Wing	B2	Q2	-	-	[+]	8
SSTG0050-1	<i>Placement in geomorphology ULiège</i> - COLLÉGIALITÉ	B2	Q2	-	-	-	8
SSTG0055-1	<i>Internship in relation to human aspects of global environmental changes</i> (english language) - COLLÉGIALITÉ	B2	Q2	-	-	-	8

#### Single focus (B1 : 4Cr, B2 : 26Cr)

##### Research Focus (B1 : 4Cr, B2 : 26Cr)

In agreement with the Jury, choose a course not already chosen among the three courses below: (B1 : 4Cr)

##### Climatology

CLIM0660-1	<i>Introduction to modelling in physical geography - Partim 2 : Climatology</i> (english language) - Sébastien DOUTRELOUP, Xavier FETTWEIS	B1	Q2	10	20	-	4
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##### Geomorphology and environmental hazards

GEOG2012-1	<i>Coastal geomorphology, changing sea levels and the vulnerability of coastal regions</i> - Aurelia HUBERT - [3d FW]	B1	Q2	20	10	[+]	4
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##### Human aspects of global environmental changes

GEOG0049-1	<i>Environment, Migration, Politics - a series of lectures by HUGO Observatory</i> (english language) - François GEMENNE, Pierre OZER	B1	Q2	6	30	-	4
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**In agreement with the Jury, choose one of the three optional subjects below: (exceptionally and in a duly justified manner, the student may choose one or more courses in another module) (B2 : 1Nbr)**

##### Climatology (B2 : 26Cr)

In agreement with the Jury, choose courses not already chosen for a total of 26 credits among: (B2 : 26Cr)

CLIM0002-2	<i>Climate modelling, Part 2</i> (english language) - Louis FRANÇOIS	B2	Q1	30	8	-	4
SPAT0024-4	<i>Meteorology, Part 2</i> - Louis FRANÇOIS	B2	Q1	20	10	-	2
CLIM0017-2	<i>Climate modelling</i> - Part 1 : Atmosphere - Sébastien DOUTRELOUP, Xavier FETTWEIS - Part 2 : Vegetation and carbon cycle - Louis FRANÇOIS	B2	Q1	10	20	-	7
CLIM0024-1	<i>Introduction to modeling in physical geography - Part 3 : Advanced climatology</i> - Xavier FETTWEIS	B2	Q1	10	20	-	3
OCEA0075-2	<i>Physical oceanography and marine meteorology, Theory and practice</i> - JeanMarie BECKERS	B2	Q1	30	15	-	4

- [...] courses from the master in geography, climatology of the UCL for a maximum of 7 credits
- [...] courses not already taken from the master in geography, global change or from the master in geography, general or from the master in geography, geomatics or from the master in geology (120 ECTS).

#### Geomorphology and environmental hazards (B2 : 26Cr)

In agreement with the Jury, choose courses not already chosen for a total of 26 credits among: (B2 : 26Cr)

GEOG0633-2	<i>Rivers dynamics, Application to the management of rivers - Geoffrey HOUBRECHTS - [2d FW]</i>	B2	Q1	10	5	[+]	3
GEOG0036-1	<i>Morphotectonics and volcanism - Alain DEMOULIN</i>	B2	Q1	25	15	-	5
GEOG0036-2	<i>Morphotectonics and volcanism, Additional field work - Alain DEMOULIN - [2d FW]</i>	B2	Q2	-	5	[+]	1
GEOG0045-1	(pas organisé en 2021-2022) <i>Land use change modelling (english language) - N...</i>	B2	Q2	25	15	-	4
GEOG0046-1	(pas organisé en 2021-2022) <i>Soil erosion and landslide risks: prediction and prevention (english language) - Aurelia HUBERT, N...</i>	B2	Q1	20	30	-	6
GEOG0047-1	<i>Disaster risk management (english language) - Pierre OZER</i>	B2	Q1	20	10	-	4

- [...] courses not already taken from the master in geography, global change or from the master in geography, general or from the master in geography, geomatics or from the master in geology (120 ECTS).

#### Human aspects of global environmental changes (B2 : 26Cr)

GEOG0048-1	<i>Climate diplomacy (english language) - Part 1 : Introduction to mechanisms of international cooperation on climate changes - François GEMENNE - Part 2 : Role-playing game : simulation of a COP - François GEMENNE - Part 3 : Participation to a COP - François GEMENNE</i>	B2	Q1	6	-	-	7
GEOG0050-1	<i>Health impacts of climate changes (english language) - Part 1 : Introduction to planetary health - Annelise DEPOUX, François GEMENNE - Part 2 : Participation to the MOOC "Climate Change and Health" - Annelise DEPOUX, François GEMENNE</i>	B2	Q2	8	-	-	5
GEOG0051-1	<i>Climate geopolitics (english language) - François GEMENNE</i> <i>Notice : with Observatory on Defense and Climate</i>	B2	Q2	12	18	-	4
GEOG0052-1	<i>Economics of global environmental changes (english language) - Mikulas CERNOTA, François GEMENNE, Paula PUSKAROVA</i>	B2	Q2	24	-	-	4

- [...] In agreement with the jury, chose one or more courses for a total of 6 credits from the curriculum of the University of Liège or another institution

## Additional credits Master in geography, global change, research focus

#### Optional courses (B0 : 20Cr)

Depending on the student's educational background and in agreement with the jury, choose, if necessary, courses for a maximum of 20 credits from the list below : (B0 : 20Cr)

GEOG2020-1	<i>Elements of meteorology - Sébastien DOUTRELOUP, Xavier FETTWEIS - [2d FW]</i>	B0	Q2	20	15	[+]	3
GEOG0217-2	<i>Hydrology - Geoffrey HOUBRECHTS - [2d FW]</i>	B0	Q1	15	10	[+]	3

GEOG0630-5	<i>Climatic geomorphology, Part A</i> - Aurelia HUBERT - [4d FW]	B0	Q1	15	10	[+]	<b>3</b>
GEOG0055-1	<i>Environmental geography</i> (english language) - <i>Part 1</i> - Pierre OZER, Serge SCHMITZ - <i>Part 2</i> - Pierre OZER, Serge SCHMITZ - [6d FW]	B0	TA	24	6	-	<b>5</b>
				-	6	[+]	
GEOG0201-4	<i>Quaternary geology and geomorphology</i> - <i>Theory</i> - Alain DEMOULIN - <i>Field</i> - Alain DEMOULIN - [2d FW] - <i>Futher theory</i> - Alain DEMOULIN	B0	Q2	15	-	-	<b>3</b>
				-	-	[+]	
				5	-	-	
GEOG0204-2	<i>Fluvial geomorphology and hydrography</i> - Geoffrey HOUBRECHTS - [3d FW]	B0	Q2	20	15	[+]	<b>3</b>