

**Block view of the study programme**

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**Block 1**

**Compulsory courses**

**Core courses common to the study paths**

GEOG0057-1	<i>Operational GIS - N... - Suppl</i> : Pierre HALLOT, Adrien MICHEZ	Q1	30	30	-	5
GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	Q2	10	20	-	3
GEOG0042-2	<i>Geomorphic challenges in a changing world</i> (english language) - Matthias VANMAERCKE	Q2	10	20	-	3
GEOG2028-1	<i>Introduction to spatial planning</i> - JeanMarie HALLEUX - [1d FW]	Q1	15	15	[+]	3

**Courses specific to the Study Path**

GEOG0660-1	<i>Introduction to modelling in physical geography - Partim 1 : Environment</i> (english language) - Matthias VANMAERCKE	Q1	20	15	-	3
SPAT0024-3	<i>Meteorology, Part 1</i> - Louis FRANÇOIS	Q1	20	10	-	3
CLIM0002-1	<i>Climate modelling, Part 1</i> (english language) - Louis FRANÇOIS	Q2	15	7	-	2
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment</i> (english language) - Marilaure GRÉGOIRE	Q1	20	20	-	3
GEOG2052-1	<i>Field surveys in geomorphology and climatology</i> - Geoffrey HOUBRECHTS - [5d FW]	Q2	-	15	[+]	5
GEOG0661-1	<i>Earth surface processes</i> (english language) - Aurelia HUBERT	Q2	25	12	-	4
SPAT0027-3	<i>Climate change and impacts</i> (english language) - Louis FRANÇOIS, Guy MUNHOVEN	TA	15	45	-	5
GEOG0662-1	<i>International politics of climate change</i> (english language) - François GEMENNE	Q1	24	12	-	4
RISQ2025-1	<i>Migration and displacement of people following environmental degradation and shocks</i> (english language) - Caroline ZICKGRAF	Q2	24	-	-	3

**Optional courses**

**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

**Climatology**

MATH0508-1	<i>Time series analysis in climatology</i> (english language) - Samuel NICOLAY	Q1	20	10	-	3	
CLIM0016-1	<i>Remote sensing applied to climatology</i> (english language) - Nicolas CLERBAUX	Q2	20	10	-	3	
CLIM0007-2	<i>Greenhouse gases - Measures and instruments to mitigate climate change</i> (english language) - Emmanuel MAHIEU - [3d FW] (Odd years)	Q1	30	-	[+]	4	
ENVT3056-1	<i>Agrometeorology</i> (Even years) - <i>Agrometeorology Basis</i> - Bernard TYCHON - <i>Applied Agrometeorology</i> - Bernard TYCHON - [1d FW]	Q2		15 45	15 15	- [+]	7

**Basic courses**

GEOG2020-1	<i>Elements of meteorology</i> - Sébastien DOUTRELOUP, Xavier FETTWEIS - [2d FW]	Q2	20	15	[+]	3
GEOG0630-5	<i>Climatic geomorphology, Part A</i> - Aurelia HUBERT - [4d FW]	Q1	20	10	[+]	3
GEOG0055-1	<i>Environmental geography</i> (english language) - Pierre OZER, Serge SCHMITZ - [6d FW]	TA	24	12	[+]	5

**Geomorphology and environmental risks**

GEOG0242-2	<i>Applied Geomorphology and Continental Deposits Study Methods</i> - Geoffrey HOUBRECHTS - [2d FW]	Q1	20	10	[+]	<b>4</b>
GEOG0059-1	<i>Geographical information systems</i> - N... - Suppl : Roland BILLEN, JeanPaul KASPRZYK	Q1	30	30	-	<b>6</b>

#### Single focus

##### Research Focus

In agreement with the Jury, choose a course not already chosen among the three courses below:

##### Climatology

CLIM0660-1	<i>Introduction to modelling in physical geography - Partim 2 : Climatology</i> (english language) - Sébastien DOUTRELOUP, Xavier FETTWEIS	Q2	10	20	-	<b>4</b>
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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]	Q2	20	10	[+]	<b>4</b>
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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	Q2	6	30	-	<b>4</b>
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#### Block 2

##### Compulsory courses

##### Core courses common to the study paths

SMEM0043-1	<i>Final thesis</i> - COLLÉGIALITÉ	TA	-	-	-	<b>20</b>
SSTG0060-1	<i>Internships</i> - COLLÉGIALITÉ, Xavier FETTWEIS, François GEMENNE, Aurelia HUBERT - [6w Internship]	TA	-	-	[+]	<b>6</b>

##### Courses specific to the Study Path

##### Optional courses

##### Courses specific to the Study Path

In agreement with the Jury, choose one of the three placements below

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

#### Single focus

##### Research Focus

**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)**

##### Climatology

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

CLIM0002-2	<i>Climate modelling, Part 2</i> (english language) - Louis FRANÇOIS	Q1	30	8	-	<b>4</b>
SPAT0024-4	<i>Meteorology, Part 2</i> - Louis FRANÇOIS	Q1	20	10	-	<b>2</b>
CLIM0017-2	<i>Climate modelling</i>	Q1				<b>7</b>

	- <i>Part 1 : Atmosphere</i> - Sébastien DOUTRELOUP, Xavier FETTWEIS	10	20	-	
	- <i>Part 2 : Vegetation and carbon cycle</i> - Louis FRANÇOIS	15	25	-	
CLIM0024-1	<i>Introduction to modeling in physical geography - Part 3 : Advanced climatology</i> - Sébastien DOUTRELOUP, Xavier FETTWEIS	Q1	10	20	3
CLIM0025-1	<i>The study of polar climates and glaciology</i> - Sébastien DOUTRELOUP, Xavier FETTWEIS	Q2	20	10	3
OCEA0075-2	<i>Physical oceanography and marine meteorology, Theory and practice</i> - JeanMarie BECKERS	Q1	30	15	4
[...]	courses not already taken from the master in geography, global change for a total of 7 credits				
[...]	courses from the master in geography, climatology of the UCL for a maximum of 7 credits				
[...]	courses from the master in geography: general				

#### Geomorphology and environmental hazards

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

GEOG0633-2	<i>Rivers dynamics, Application to the management of rivers</i> - Geoffrey HOUBRECHTS - [2d FW]	Q1	10	5	[+]	4
GEOG0633-3	<i>Rivers dynamics, Additional field work</i> - Geoffrey HOUBRECHTS - [4d FW]	Q2	-	20	[+]	2
GEOG0036-1	<i>Morphotectonics and volcanism</i> - Alain DEMOULIN	Q1	25	15	-	5
GEOG0036-2	<i>Morphotectonics and volcanism, Additional field work</i> - Alain DEMOULIN - [2d FW]	Q2	-	5	[+]	1
GEOG0045-1	<i>Land use change modelling</i> (english language) - Matthias VANMAERCKE	Q2	25	15	-	4
GEOG0046-1	<i>Soil erosion and landslide risks : prediction and prevention</i> (english language) - Aurelia HUBERT, Matthias VANMAERCKE	Q1	40	20	-	6
GEOG0047-1	<i>Disaster risk management</i> (english language) - Pierre OZER	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) for a maximum of 6 credits.					

#### Human aspects of global environmental changes

GEOG0048-1	<i>Climate diplomacy</i> (english language) - <i>Part 1 : Introduction to mechanisms of international cooperation on climate changes</i> - François GEMENNE - <i>Part 2 : Role-playing game : simulation of a COP</i> - François GEMENNE - <i>Part 3 : Participation to a COP</i> - François GEMENNE	Q1	6	-	-	7
GEOG0050-1	<i>Health impacts of climate changes</i> (english language) - <i>Part 1 : Introduction to planetary health</i> - Annelise DEPOUX, François GEMENNE - <i>Part 2 : Participation to the MOOC "Climate Change and Health"</i> - Annelise DEPOUX, François GEMENNE, Rainer SAUERBORN	Q2	8	-	-	5
GEOG0051-1	<i>Climate geopolitics</i> (english language) - François GEMENNE <i>Notice</i> : with Observatory on Defense and Climate	Q2	12	18	-	4
GEOG0052-1	<i>Economics of global environmental changes</i> (english language) - Mikulas CERNOTA, François GEMENNE, Paula PUSKAROVA	Q2	24	-	-	4
[...]	In agreement with the Jury, choose one or more courses for a total of 6 credits from the study programmes of the ULiege or another institution					

#### Bloc d'aménagement du programme de l'année

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

### Optional courses

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 :

GEOG2020-1	<i>Elements of meteorology</i> - Sébastien DOUTRELOUP, Xavier FETTWEIS - [2d FW]	Q2	20	15	[+]	<b>3</b>
GEOG0217-2	<i>Hydrology</i> - Geoffrey HOUBRECHTS, Matthias VANMAERCKE - [2d FW]	Q1	15	10	[+]	<b>3</b>
GEOG0630-5	<i>Climatic geomorphology, Part A</i> - Aurelia HUBERT - [4d FW]	Q1	20	10	[+]	<b>3</b>
GEOG0055-1	<i>Environmental geography</i> (english language) - Pierre OZER, Serge SCHMITZ - [6d FW]	TA	24	12	[+]	<b>5</b>
GEOG0201-4	<i>Quaternary geology and geomorphology</i> - <i>Theory</i> - Alain DEMOULIN - <i>Field</i> - Alain DEMOULIN - [2d FW] - <i>Further theory</i> - Alain DEMOULIN	Q2				<b>3</b>
			15	-	-	
			-	-	[+]	
			5	-	-	
GEOG0204-2	<i>Fluvial geomorphology and hydrography</i> - Geoffrey HOUBRECHTS - [3d FW]	Q2	20	15	[+]	<b>3</b>