

Cycle view of the study programme

B1 Or Th Pr Au Cr

Compulsory courses (B1 : 36Cr, B2 : 24Cr)

Core courses common to the study paths

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

Courses specific to the Study Path

CLIM0019-1	<i>Climate Changes : Criticisms</i> - Michel ERPICUM	B1	Q1	10	10	-	2
CLIM0014-1	<i>Programming in service of climatology (part 1)</i> - Xavier FETTWEIS	B1	Q1	15	30	-	3
MATH0221-4	<i>Analysis of time series</i> - Pierre MAGAIN, Guy MUNHOVEN	B1	Q2	15	15	-	3
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment</i> - Eric DELHEZ	B1	Q1	20	20	-	3
PHYS0209-2	<i>Numerical methods in physics</i> - Alejandro SILHANEK	B1	Q1	15	20	-	3
GEOG0605-1	<i>Regional geography and geomorphology</i> - François PETIT - [4d FW]	B1	Q2	20	-	[+]	3
GEOG0630-5	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	B1	Q1	15	5	[+]	3

Notice : Students who have already taken the cours Numerical methods in physics and must choose, with the approval of the Jury, courses totaling 3 ECTS not already taken in the 3rd year of Bachelor or in one of the programmes of Master in Geography.

Optional courses (B1 : 24Cr, B2 : 36Cr)

Courses specific to the Study Path

In agreement with the jury, choose two teaching (and learning) units from the following : (B1 : 1Nbr)

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	-	10
CLIM0020-1	<i>Atmosphere and Oceans</i> (Odd years) - <i>Greenhouse Gas and Climate Changes Fight</i> - Emmanuel MAHIEU - [3d FW] - <i>Teledetection applied to Climatology</i> - Nicolas CLERBAUX - <i>Introduction to Physical Oceanography and Marine Meteorology</i> - JeanMarie BECKERS	B1	Q1	30	-	[+]	10
CLIM0021-1	<i>Topoclimatology</i> - <i>Topoclimatology</i> - Michel ERPICUM - [3d FW] - <i>Urban Climatology</i> - Michel ERPICUM - <i>Zonal Climatology</i> - Michel ERPICUM	B1	Q2	15	15	[+]	10
GEOG2029-1	<i>Geomorphology Modelling</i> - <i>Geomatics applied to Geomorphology</i> - Yves CORNET - <i>Introduction to Geomorphology Modelling</i> - Aurelia HUBERT - <i>Introduction to hydrological modelling</i> - Eric HALLOT	B1	Q1	10	10	-	10

In agreement with the jury, choose two teaching (and learning) units from the following : (B2 : 2Nbr)

ENVT3056-1	<i>Agrometeorology</i> - <i>Agrometeorology Basis</i> - Bernard TYCHON - <i>Applied Agrometeorology</i> - Bernard TYCHON - [1d FW]	B2	Q2	15	15	-	10
				45	15	[+]	

CLIM0020-1	<i>Atmosphere and Oceans</i> - <i>Greenhouse Gas and Climate Changes Fight</i> - Emmanuel MAHIEU - [3d FW] - <i>Teledetection applied to Climatology</i> - Nicolas CLERBAUX - <i>Introduction to Physical Oceanography and Marine Meteorology</i> - JeanMarie BECKERS	B2	Q1	30	-	[+]	10
CLIM0021-1	<i>Topoclimatology</i> - <i>Topoclimatology</i> - Michel ERPICUM - [3d FW] - <i>Urban Climatology</i> - Michel ERPICUM - <i>Zonal Climatology</i> - Michel ERPICUM	B2	Q2	15	15	[+]	10
GEOG2029-1	<i>Geomorphology Modelling</i> - <i>Geomatics applied to Geomorphology</i> - Yves CORNET - <i>Introduction to Geomorphology Modelling</i> - Aurelia HUBERT - <i>Introduction to hydrological modelling</i> - Eric HALLOT	B2	Q1	10	10	-	10
GEOG2030-1	<i>Hydrology</i> - <i>River Dynamics</i> - François PETIT - [2d FW] - <i>Applied Hydrology</i> - François PETIT - [3d FW] - <i>Hydrogeology</i> - Alain DASSARGUES	B2	Q1	15	15	[+]	10
GEOG2031-1	<i>Geomorphology Data Acquisition</i> - <i>Geomorphological Survey</i> - COLLÉGIALITÉ, Geoffrey HOUBRECHTS, Aurelia HUBERT - [4d FW] - <i>Geomorphological Dynamic</i> - COLLÉGIALITÉ, Eric HALLOT, Geoffrey HOUBRECHTS, François PETIT - [1d FW]	B2	Q1	-	15	[+]	10
GEOG2032-1	<i>Surfacial Process</i> - <i>Soils Mechanics and Geotechnology</i> - Robert CHARLIER, Frédéric COLLIN - <i>Side Process</i> - Aurelia HUBERT - [1d FW] - <i>Morphotectonics and Volcanism</i> - Alain DEMOULIN - [2d FW]	B2	Q1	24	24	-	10

Notice : a maximum of 2 teaching (and learning) units in "geomorphology" will be chosen on the cycle.

Single focus (B1 : 1Nbr, B2 : 1Nbr)

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

CLIM0001-1	<i>Applied climatology</i> - Michel ERPICUM - [1d FW]	B1	Q2	20	10	[+]	3
CLIM0002-1	<i>Climate models : principles and applications</i> - Louis FRANÇOIS Corequisite : CLIM0014-1 - Programmation au service de la climatologie (partim 1)	B1	Q2	45	15	-	6
CLIM0003-3	<i>Climate changes and impacts</i> - Louis FRANÇOIS, Guy MUNHOVEN	B1	TA	15	45	-	5
CLIM0005-1	<i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM] Prerequisite : CLIM0002-1 - Modèles climatiques : principes et applications <i>Notice :</i> Collegiality = Royal Military School and Meteorological Wing	B2	Q2	-	-	[+]	6
CLIM0015-1	<i>Programming in service of climatology (part 2)</i> - Xavier FETTWEIS Prerequisite : CLIM0014-1 - Programmation au service de la climatologie (partim 1)	B2	Q1	15	30	-	3
CLIM0017-2	<i>Climate modelling</i> - <i>Part 1 : Atmosphere</i> - Xavier FETTWEIS - <i>Part 2 : Vegetation and carbon cycle</i> - Louis FRANÇOIS Prerequisite : CLIM0002-1 - Modèles climatiques : principes et applications Corequisite : CLIM0015-1 - Programmation au service de la climatologie (partim 2)	B2	Q1	10	20	-	7

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)

SPAT0024-2	<i>Meteorology</i> - Louis FRANÇOIS	B0	Q1	40	20	-	5
GEOG0630-5	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	B0	Q1	15	5	[+]	3
MATH2007-1	<i>Mathematics</i> - Françoise BASTIN	B0	Q1	30	40	-	8
PHYS0188-7	<i>Physics</i> - Nicolas VANDEWALLE	B0	Q1	30	40	-	8

Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en sciences géographiques, orientation climatologie, à finalité approfondie" en 2014-2015

Optional courses (B1 : 30Cr)

Follow-up to the focus chosen in first year (B1 : 30Cr)

Research Focus (B1 : 30Cr)

CLIM0005-1	<i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM]	B1	Q2	-	-	[+]	7
CLIM0001-1	<i>Applied climatology</i> - Michel ERPICUM - [1d FW]	B1	Q2	20	10	[+]	3
CLIM0015-1	<i>Programming in service of climatology (part 2)</i> - Xavier FETTWEIS	B1	Q1	15	30	-	4
CLIM0016-1	<i>Remote sensing applied to climatology</i> - Nicolas CLERBAUX	B1	Q1	20	10	-	3
CLIM0007-2	<i>Greenhouse gases - Measures and instruments to mitigate climate change</i> - Emmanuel MAHIEU - [3d FW]	B1	Q1	30	-	[+]	3

Choose one module from : (B1 : 20Cr)

Environmental and applied climatology (B1 : 10Cr)

GEOG0633-1	<i>Rivers dynamics</i> - François PETIT - [2d FW]	B1	Q1	15	15	[+]	3
ENV0879-2	<i>Applied agrometeorology</i> - Bernard TYCHON - [1d FW]	B1	Q2	45	15	[+]	5
ENV0881-1	<i>Environmental degradation and desertification</i> - Pierre OZER	B1	Q2	20	-	-	2

Climate modeling (B1 : 10Cr)

CLIM0017-2	<i>Climate modelling</i> - Part 1 : Atmosphere - Xavier FETTWEIS - Part 2 : Vegetation and carbon cycle - Louis FRANÇOIS	B1	Q1	10	20	-	7
OCEA0075-2	<i>Introduction to physical oceanography and marine meteorology</i> - JeanMarie BECKERS	B1	Q1	30	15	-	3

Compulsory courses (B1 : 30Cr)

Core courses common to the study paths

GEOG0025-1	<i>Introduction to research</i> - JeanPaul DONNAY	B1	Q1	10	10	-	2
GEOG0646-1	<i>Seminars</i> - COLLÉGIALITÉ Notice : Collegiality = Climatology Team	B1	TA	-	-	-	2
GEOG0007-1	<i>Thesis supervision and seminars</i> - COLLÉGIALITÉ Notice : Collegiality = Climatology Team	B1	TA	-	-	-	3
SMEM0033-1	<i>Final thesis</i> - COLLÉGIALITÉ	B1	TA	-	-	-	20

Courses specific to the Study Path

CLIM0018-1 *Urban climatology* - Michel ERPICUM

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