

Two-Year Master Program (120 ECTS)

First Year

Core courses common to the study paths

Compulsory courses

GEOG0238-1	<i>Geographical Information Systems</i> - JeanPaul DONNAY	30	30	-	6
SPOL2209-3	<i>Environmental and land policies</i> - Quentin MICHEL - Suppl : Sophie HANSON	30	-	-	3
GEOG0605-1	<i>Regional geography and geomorphology</i> - François PETIT - [4d FW]	20	-	[+]	3
GEOG0622-1	<i>Project management</i> - JeanPaul DONNAY	10	10	-	2

Courses specific to the Study Path

Compulsory courses

CLIM0002-1	<i>Climate models : principles and applications</i> - Louis FRANÇOIS	45	15	-	6
CLIM0003-3	<i>Climate changes and impacts</i> - Louis FRANÇOIS	15	45	-	5
CLIM0004-1	<i>Zonal climatology</i> - Michel ERPICUM	15	30	-	4
CLIM0014-1	<i>Programming in service of climatology (part 1)</i> - Xavier FETTWEIS	15	30	-	4
ENVT0877-1	<i>Basis of Agrometeorology</i> - Bernard TYCHON	15	15	-	3
GEOG0607-4	<i>Topoclimatology</i> - Michel ERPICUM - [3d FW]	15	15	[+]	4
MATH0221-4	<i>Analysis of time series</i> - Pierre MAGAIN, Guy MUNHOVEN	15	15	-	3
OCEA0014-1	<i>Mathematical analysis and modelling methods applied to the environment</i> - Eric DELHEZ	20	20	-	4
PHYS0209-2	<i>Numerical methods in physics</i> - Alejandro SILHANEK	15	20	-	4
SPAT0024-2	<i>Meteorology</i> - Louis FRANÇOIS	40	20	-	6
GEOG0630-5	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	15	5	[+]	3

Students who have already taken the cours *Numerical methods in physics* must choose, with the approval of the Board of Studies, one course totaling 4 ECTS not already taken in the 3rd year of Bachelor or in one of the programmes of Master in Geography.

Second year

Core courses common to the study paths

Compulsory courses

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

Courses specific to the Study Path

Compulsory course

CLIM0018-1	<i>Urban climatology</i> - Michel ERPICUM	20	15	-	3
------------	---	----	----	---	----------

Research Focus

Compulsory courses

CLIM0005-1	<i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM]	-	-	[+]	7
	<i>Notice</i> : Collegiality = Royal Military School and Meteorological Wing				
CLIM0001-1	<i>Applied climatology</i> - Michel ERPICUM - [1d FW]	20	10	[+]	3
CLIM0015-1	<i>Programming in service of climatology (part 2)</i> - Xavier FETTWEIS	15	30	-	4
CLIM0016-1	<i>Remote sensing applied to climatology</i> - Nicolas CLERBAUX	20	10	-	3

CLIM0007-2	<i>Greenhouse gases - Measures and instruments to mitigate climate change - Emmanuel MAHIEU - [1d FW]</i>	30	-	[+]	3
------------	---	----	---	-----	----------

Optional courses

Choose one module from :

Environmental and applied climatology

GEOG0633-1	<i>Rivers dynamics - François PETIT - [2d FW]</i>	15	15	[+]	3
ENVT0879-2	<i>Applied agrometeorology - Bernard TYCHON - [1d FW]</i>	45	15	[+]	5
ENVT0881-1	<i>Environmental degradation and desertification - Pierre OZER</i>	20	-	-	2

Climate modeling

CLIM0017-2	<i>Climate modelling</i>				7
	- <i>Part 1 : Atmosphere - Xavier FETTWEIS</i>	10	20	-	
	- <i>Part 2 : Vegetation and carbon cycle - Louis FRANÇOIS</i>	15	25	-	
OCEA0010-2	<i>Physical Oceanography - JeanMarie BECKERS</i>	20	10	-	3