

First Year

Core courses common to the study paths

Compulsory courses

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|------------|---|----|----|-----|----------|
| 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

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| 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

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|------------|--|----|----|---|----------|
| GEOG0025-1 | <i>Research Design in Spatial Sciences</i> - JeanPaul DONNAY | 10 | 10 | - | 2 |
| GEOG0646-1 | <i>Seminars</i> - COLLÉGIALITÉ | - | - | - | 2 |

Notice : Collegiality = Climatology Team

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| GEOG0007-1 | <i>Thesis supervision and seminars</i> - COLLÉGIALITÉ | - | - | - | 3 |
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Notice : Collegiality = Climatology Team

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| SMEM0033-1 | <i>Final thesis</i> - COLLÉGIALITÉ | - | - | - | 20 |
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Courses specific to the Study Path

Compulsory course

| | | | | | |
|------------|---|----|----|-----|----------|
| CLIM0011-1 | <i>Energy and territories</i> - Bernadette MERENNESCHOUMAKER - [1d Mon. WS] | 15 | 15 | [+] | 3 |
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Compulsory courses

| | | | | | |
|------------|---|---|---|-----|----------|
| CLIM0005-1 | <i>Operational meteorology</i> - COLLÉGIALITÉ - [18d SEM] | - | - | [+] | 7 |
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Notice : Collegiality = Royal Military School and Meteorological Wing

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|------------|---|----|----|-----|----------|
| 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 |

Optional courses

Choose one module from :

Environmental and applied climatology

| | | | | | |
|------------|--|----|----|-----|---|
| GEOG0630-4 | <i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW] | 20 | - | [+] | 3 |
| GEOG0633-1 | <i>Rivers dynamics</i> - François PETIT - [2d FW] | 15 | 15 | [+] | 3 |
| ENVT0879-2 | <i>Applied agrometeorology</i> - Bernard TYCHON - [1d FW] | 45 | 15 | [+] | 5 |
| ENVT0881-1 | <i>Environmental degradation and desertification</i> - Pierre OZER | 20 | - | - | 2 |

Climate modeling

| | | | | | |
|------------|---|----|----|---|---|
| CLIM0017-1 | <i>Climate modelling</i> | | | | 7 |
| | - <i>Part 1 : Atmosphere</i> - Xavier FETTWEIS | 10 | 20 | - | |
| | - <i>Part 2 : Vegetation-climate interaction</i> - Louis FRANÇOIS | 15 | 25 | - | |
| CLIM0009-1 | <i>Biogeochemical cycle modelling and global changes</i> - Louis FRANÇOIS | 20 | 20 | - | 3 |
| OCEA0010-2 | <i>Physical Oceanography</i> - JeanMarie BECKERS | 20 | 10 | - | 3 |

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</i> - N... - [1d FW] | 30 | - | [+] | 3 |

Optional courses

Choose one module from :

Environmental and applied climatology

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

Climate modeling

| | | | | | |
|------------|--|----|----|---|---|
| CLIM0017-2 | <i>Modélisation du climat</i> | | | | 7 |
| | - <i>Part 1 : Atmosphere</i> - Xavier FETTWEIS | 10 | 20 | - | |
| | - <i>Partim 2 : Végétation et cycle du carbone</i> | 15 | 25 | - | |
| OCEA0010-2 | <i>Physical Oceanography</i> - JeanMarie BECKERS | 20 | 10 | - | 3 |