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## One-year master program (60 ECTS)

### Compulsory courses

GEOG0238-1	<i>Geographical Information Systems</i> - JeanPaul DONNAY	30	30	-	<b>6</b>
GEOG0603-2	<i>Analysis and management of landscapes</i> - Serge SCHMITZ - [2d FW]	15	30	[+]	<b>4</b>
GEOG2008-3	<i>Territorial development and spatial planning</i> - JeanMarie HALLEUX - [1d FW]	30	30	[+]	<b>5</b>
GEOG2009-1	<i>Sporck Chair</i> - Bernadette MERENNESCHOUMAKER, Lena SANDERS	15	-	-	<b>1</b>
GEOG0222-3	<i>Rural Geography</i> - Serge SCHMITZ - [3d FW]	30	16	[+]	<b>5</b>
GEOG0605-1	<i>Regional geography and geomorphology</i> - François PETIT - [4d FW]	20	-	[+]	<b>3</b>
GEOG0630-3	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	30	15	[+]	<b>4</b>
GEOG0633-1	<i>Rivers dynamics</i> - François PETIT - [2d FW]	15	15	[+]	<b>3</b>
GEOG0036-1	<i>Morphotectonics and volcanism</i> - Alain DEMOULIN - [2d FW]	25	15	[+]	<b>4</b>
ENVT0030-2	<i>Managing the environment</i> - JeanMarie HAUGLUSTAINE, François MELARD, Pierre M. STASSART	24	12	-	<b>3</b>
ENVT0848-3	<i>Impacts of human activities on ecosystems and including land use</i> - Célia JOAQUIMJUSTO, Angélique LÉONARD, Roberto RENZONI, Emmanuël SÉRUSIAUX	20	10	-	<b>2</b>
SMEM0031-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	<b>15</b>

### Optional courses

With the approval of the Board of Studies, choose one or two courses totaling 5 ECTS, depending on the final thesis :

#### Geographical sciences

GEOG0242-2	<i>Applied geomorphology and methods to study continental deposits</i> - Geoffrey HOUBRECHTS - [2d FW]	20	15	[+]	<b>5</b>
GEOG0261-1	<i>Surveys and field protocols</i> - Serge SCHMITZ - [1d FW]	15	15	[+]	<b>3</b>
GEOG0618-2	<i>Real estate markets</i> - JeanMarie HALLEUX	15	10	-	<b>2</b>

Students who have already taken the course *Real estate markets* must choose, with the approval of the Board of Studies, one course totaling 2 ECTS not already taken in the 3rd year of Bachelor or in one of the programmes of Master in Geography.

#### Environmental management

ENVT0031-2	<i>Society / Environment</i> - François MELARD	24	12	-	<b>3</b>
ENVT0013-3	<i>Assessment tools (impact assessment, LCA)</i> - Alain HANSON, Nathalie SEMAL	12	12	-	<b>2</b>

*Notice* : Students who choose the two courses from the "Environmental Science and Management" module will have direct access to the 2nd year of the Masters in Environmental Science and Management, organised on the Arlon campus. Other students will also have access to the 2nd year of the Masters in Environmental Science and Management, on the condition that they take these two courses in addition to the 60 credits for this study year.

## 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	-	<b>6</b>
GEOG0622-1	<i>Project management</i> - JeanPaul DONNAY	10	10	-	<b>2</b>
GEOG0605-1	<i>Regional geography and geomorphology</i> - François PETIT - [4d FW]	20	-	[+]	<b>3</b>
GEOG0631-2	<i>Seminars</i> - COLLÉGIALITÉ - [20h SEM]	-	-	[+]	<b>2</b>

*Notice* : Collegiality = Geography team

Courses specific to the Study Path

#### Compulsory courses

PHYS0209-2	<i>Numerical methods in physics</i> - Alejandro SILHANER	15	20	-	<b>3</b>
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GEOG0216-3	<i>Complement of cartographic projections</i> - JeanPaul DONNAY	15	20	-	<b>3</b>
GEOG2008-3	<i>Territorial development and spatial planning</i> - JeanMarie HALLEUX - [1d FW]	30	30	[+]	<b>5</b>
GEOG0222-3	<i>Rural Geography</i> - Serge SCHMITZ - [3d FW]	30	16	[+]	<b>5</b>
GEOG0630-3	<i>Climatic geomorphology</i> - Aurelia HUBERT - [4d FW]	30	15	[+]	<b>4</b>
GEOG0036-1	<i>Morphotectonics and volcanism</i> - Alain DEMOULIN - [2d FW]	25	15	[+]	<b>4</b>
GEOG2012-1	<i>Coastal geomorphology</i> - Aurelia HUBERT - [2d FW]	20	10	[+]	<b>3</b>

Students who have already taken the cours *Numerical methods in physics* and *Cartographic projections* must choose, with the approval of the Board of Studies, courses totaling 6 ECTS not already taken in the 3rd year of Bachelor.

#### Optional courses

*With the approval of the Board of Studies, choose one option from the following :*

##### Basis of geomorphology

GEOG0242-2	<i>Applied geomorphology and methods to study continental deposits</i> - Geoffrey HOUBRECHTS - [2d FW]	20	15	[+]	<b>5</b>
GEOL1026-2	<i>Complement of geology, 1st part : elements of mineralogy</i> - Frédéric HATERT	20	20	-	<b>3</b>
GEOG0633-1	<i>Rivers dynamics</i> - François PETIT - [2d FW]	15	15	[+]	<b>4</b>
GEOG0262-2	<i>Methods of spatial data acquisition</i> - Roland BILLEN, René WARNANT - [3d FW]	15	15	[+]	<b>4</b>
GEOL0006-1	<i>Rocks and sedimentary processes</i> - Frédéric BOULVAIN - [1d FW]	30	-	[+]	<b>4</b>

##### Basis of territorial development and geomatics

GEOG0643-1	<i>Governance methods and tools</i> - Christine PARTOUNE	10	10	-	<b>3</b>
GEOG0261-1	<i>Surveys and field protocols</i> - Serge SCHMITZ - [1d FW]	15	15	[+]	<b>3</b>
GEOG2009-1	<i>Sporck Chair</i> - Bernadette MERENNESCHOUMAKER, Lena SANDERS	15	-	-	<b>1</b>
ECON0007-2	<i>Public Management and Transport Economics</i> - HenryJean GATHON	30	15	-	<b>5</b>

With the approval of the Board of Studies : choose 8 ECTS from the following courses :

ARCH2004-2	<i>Concrete case study : urban projects (part)</i> - Jacques TELLER	30	-	-	<b>3</b>
ESHY0016-1	<i>Ecology applied to urban and regional planning (part 1)</i> - Emmanuël SÉRUSIAUX	15	15	-	<b>3</b>
GEOG0234-1	<i>Photogrammetry</i> - Yves CORNET	30	15	-	<b>5</b>
GEOG0262-2	<i>Methods of spatial data acquisition</i> - Roland BILLEN, René WARNANT - [3d FW]	15	15	[+]	<b>4</b>
SOCI1240-2	<i>Sociology of Interventions in Developing Countries</i> - Marc PONCELET	30	-	-	<b>3</b>
SOCI0009-1	<i>Introductory seminar to organisational analysis</i> - Frédéric SCHOENAERS - [15h SEM]	15	-	[+]	<b>3</b>
ENVT0040-2	<i>Theory and interim management</i> - Pierre M. STASSART	24	24	-	<b>3</b>
[...]	With the agreement of the council of studies students can also choose any other course in the program at the University of Liege.				

## Second year

Core courses common to the study paths

#### Compulsory courses

GEOG0025-1	<i>Introduction to research</i> - JeanPaul DONNAY	10	10	-	<b>2</b>
SPOL2209-3	<i>Environmental and land policies</i> - Quentin MICHEL - Suppl : Sophie HANSON	30	-	-	<b>3</b>
GEOG0007-1	<i>Thesis supervision and seminars</i> - COLLÉGIALITÉ	-	-	-	<b>2</b>
SMEM0033-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	<b>20</b>

Courses specific to the Study Path

#### Compulsory course

GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	10	20	-	<b>3</b>
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Choose one of the following focus :

#### Teaching focus

##### Compulsory courses

AESS0246-1	<i>Analysis of scholastic institutions and key-players, educational policies</i> -	15	-	-	<b>1</b>
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AESS0248-1	<i>Elements of sociology of education</i> - JeanFrançois GUILLAUME	10	-	-	1
AESS0140-1	<i>Professional ethics and training to neutrality and citizenship</i> - Anne HERLA	25	-	-	2
AESS0202-1	<i>General didactics: course and exercises ; observation placements ; reflexive practices</i> - Annick FAGNANT - [10h Internship]	30	10	[+]	4
AESS0004-1	<i>Media education</i> - Jérémy HAMERS	15	-	-	1
AESS0249-1	<i>Interdisciplinary seminar</i> - Annick FAGNANT	15	-	-	1
AESS0143-1	<i>Educational Psychology of adolescents and young adults</i> - Annick FAGNANT	15	-	-	2
AESS0339-1	<i>Understand and manage the diversity of public schools</i> - Ariane BAYE	10	15	-	3
AESS1220-1	<i>Special didactics in geography : course and exercises (1st part)</i> - Christine PARTOUNE	40	-	-	3
AESS1221-1	<i>Special didactics in geography : placements (1st part)</i>				3
	- <i>Observation placements</i> - Christine PARTOUNE - [10h Internship]	-	-	[+]	
	- <i>Teaching placements</i> - Christine PARTOUNE - [20h Internship]	-	-	[+]	
	- <i>Reflexive practical work</i> - Christine PARTOUNE	-	5	-	
AESS2220-1	<i>Special didactics in geography : course and exercises (2nd part)</i> - Christine PARTOUNE	35	-	-	4
AESS2221-1	<i>Special didactics in geography : placements (2nd part)</i>				5
	- <i>Teaching placements</i> - Christine PARTOUNE - [20h Internship]	-	-	[+]	
	- <i>Reflexive practical work</i> - Christine PARTOUNE	-	5	-	
	- <i>Extra-scholar teaching activities</i> - Christine PARTOUNE	-	10	-	

#### Professional focus in geomorphology

##### Compulsory courses

GEOG0642-1	<i>Dynamic geomorphology</i> - COLLÉGIALITÉ, Eric HALLOT, Geoffrey HOUBRECHTS, François PETIT - [1d FW]	15	15	[+]	3
	<i>Notice</i> : Collegiality = Physical Geography team				
GEOG0033-2	<i>Applied Hydrology</i> - François PETIT - [1d FW]	15	15	[+]	3
GEOG0263-1	<i>Geomatics applied to geomorphology</i> - Yves CORNET	10	10	-	2
GEOG0635-2	<i>Introduction to modeling in geomorphology</i> - Aurelia HUBERT	20	20	-	4
GEOG0008-1	<i>Geophysics</i> - René WARNANT - [1d FW]	25	-	[+]	3
GEOG0632-1	<i>Hillslope processes</i> - Aurelia HUBERT - [1d FW]	10	-	[+]	2
GEOL0282-1	<i>Sedimentary and environmental geochemistry</i> - Nathalie FAGEL	20	20	-	4
GEOL0013-3	<i>Hydrogeology</i> - Alain DASSARGUES	20	20	-	3
GEOG0264-1	<i>Geomorphological survey</i> - COLLÉGIALITÉ, Geoffrey HOUBRECHTS, Aurelia HUBERT - [4d FW]	-	15	[+]	6
	<i>Notice</i> : Collegiality = Physical Geography team				

#### Professional focus in Territorial development and geomatics

##### Compulsory courses

SSTG0014-1	<i>Internship in a company or in an administration</i> - COLLÉGIALITÉ	-	-	-	12
GEOG0265-1	<i>Geomatics applied to the analysis of the territories</i> - JeanPaul DONNAY	10	10	-	2
GEOG0603-2	<i>Analysis and management of landscapes</i> - Serge SCHMITZ - [2d FW]	15	30	[+]	4
GEOG0659-2	<i>Geomarketing</i> - Guénaël DEVILLET	15	30	-	4
GEOG0618-3	<i>Real estate markets</i> - JeanMarie HALLEUX	15	25	-	4
GEOG0644-1	<i>Regional Survey, Workshops and Fieldworks</i> - Serge SCHMITZ - [5d FW]	15	15	[+]	4

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

Students can also choose an optional module offered by the partner universities of Montpellier (France) and Sherbrooke (Canada).