

**Block view of the study programme**

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**Block 1**

**Compulsory courses**

**Core courses common to the study paths**

GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	Q2	10	20	-	<b>3</b>
CLIM0026-1	<i>Global warming and natural risks</i> (english language) - Xavier FETTWEIS	Q2	10	20	-	<b>3</b>
GEOG2028-1	<i>Introduction to spatial planning</i> - JeanMarie HALLEUX - [1d FW]	Q1	15	15	[+]	<b>3</b>
GEOG0057-1	<i>Spatial analysis</i> - François JONARD	Q2	30	30	-	<b>5</b>

**Courses specific to the Study Path**

GEOG0037-1	<i>Global Navigation Satellite Systems</i> - René WARNANT	Q1	40	15	-	<b>5</b>
GEOG0626-1	<i>Theory of errors</i> - Roland BILLEN, Andrea NASCETTI	Q2	20	30	-	<b>5</b>
GEOG0060-1	<i>Remote sensing</i> - François JONARD	Q1	25	25	-	<b>5</b>
GEOG0053-1	<i>Topography</i>	Q1				<b>5</b>
	- <i>Part A</i> - Andrea NASCETTI		20	10	-	
	- <i>Part B</i> - Nicolas SARTON - [1d FW]		10	5	[+]	
GEOG0059-1	<i>Infrastructures of spatial data</i> - Roland BILLEN	Q1	30	30	-	<b>5</b>
GEOG0062-1	<i>Geovisualization</i> - Pierre HALLOT	Q2	30	30	-	<b>5</b>

Students from the Bachelor in Geography: general, who have already followed some of the courses, may, with the Jury's agreement, follow alternative courses in the University of Liège course programme for the same number of credits.

**Optional courses**

**Choose one focus from the following :**

**Professional focus in land surveyor**

DROI8041-3	<i>Property law</i>	Q2				<b>5</b>
	- <i>Founding principles</i> - Pascale LECOCQ		32	-	-	
	- <i>Practical case</i> - Pascale LECOCQ - Suppl : Noémie GOFFLOT		13	-	-	
GCIV0620-2	<i>Introduction to geotechnics, Part A</i> - Bertrand FRANÇOIS - [1d FW]	Q1	20	10	[+]	<b>3</b>
GCIV0621-1	<i>Urban and environmental hydraulics</i> - Pierre ARCHAMBEAU, Michel PIROTON	Q2	25	15	-	<b>3</b>
GEOG2038-1	<i>Roadway and diverse networks</i> - Pierre ARCHAMBEAU, Roland BILLEN, Frédéric COLLIN - [40h Proj.]	Q2	5	15	[+]	<b>5</b>

**Professional focus in geodata expert**

INFO0009-2	<i>Database (general organisation)</i> - Christophe DEBRUYNE - [25h Proj.]	Q2	26	26	[+]	<b>5</b>
INFO0902-1	<i>Data structures and algorithms</i> - Pierre GEURTS - [40h Proj.]	Q2	26	20	[+]	<b>6</b>
INFO0062-1	<i>Object-oriented programming</i> (english language) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	<b>5</b>

Students who have already taken certain courses shall choose alternative courses in the University of Liège's course programme, with the jury's approval, for the same number of credits.

**Block 2**

**Compulsory courses**

**Core courses common to the study paths**

SSTG0061-1	<i>Internship</i> - COLLÉGIALITÉ - [6w Internship]	TA	-	-	[+]	<b>6</b>
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SMEM0043-1 *Final thesis* - COLLÉGIALITÉ TA - - - **20**

#### Courses specific to the Study Path

GEOG0063-1 *3D data acquisition and processing* (english language) - Andrea NASCETTI - Q1 10 40 [+] **5**  
[2d FW]

GEOG0038-1 *GNSS data processing* - René WARNANT Q1 25 30 - **5**

#### Optional courses

##### Courses specific to the Study Path

In agreement with the jury, chose courses for a total of 10 credits from among:

GCIV0184-5 *Building Materials* - Luc COURARD, Anne HABRAKEN - [0,5d FW, 12h Labo., 12h Proj.] Q2 36 16 [+] **5**

GEOG0066-1 *GNSS project* - René WARNANT - [60h Proj.] Q2 5 10 [+] **5**

GEOG0067-1 *Remote sensing project* - Philippe LEJEUNE, N... - [80h Proj.] Q2 - - [+] **5**

GEOG0618-1 *Real estate markets* - JeanMarie HALLEUX Q2 15 10 - **3**

SPOL2209-3 *Environmental and land policies* - Sophie HANSON Q1 30 - - **2**

[...] the programme from another field of study in Liege

#### Follow-up to the focus :

##### Professional focus in land surveyor

GEOG0068-1 *Integrated project, "Land surveyor"* - Roland BILLEN, Nicolas SARTON - [6d FW] Q1 20 5 [+] **8**

GEOG0645-1 *Professional practices : the geometrist* - Roland BILLEN Q2 20 10 - **3**

GEOG0267-1 *Land Administration* - Roland BILLEN, JeanMarie HALLEUX - [1d FW] Q2 15 15 [+] **3**

##### Professional focus in geodata expert

INFO8006-1 *Introduction to artificial intelligence* (english language) - Gilles LOUPPE - [45h Proj.] Q1 25 20 [+] **5**

GEOG0069-1 *Advanced GIS* - Roland BILLEN Q1 30 30 - **4**

GEOG0070-1 *GIS project* - Roland BILLEN - [80h Proj.] Q2 - - [+] **5**

Students who have already taken certain courses shall choose alternative courses in the University of Liège's course programme, with the jury's approval, for the same number of credits.

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

### Additional ECTS Master in geography: geomatics (120 ECTS)

#### Optional courses

Depending on the student's prior education and with the agreement of the Jury, choose, if necessary, courses for a maximum of 60 credits from the list below, the Bachelor in Geographic Sciences programme, general, or the programme of another field of study at ULiège.

INFO0201-1 *Introduction to computer programming* - Peter SCHLAGHECK Q2 20 40 - **5**

MATH0509-1 *General mathematics I* - Arnout VAN MESSEM Q1 25 30 - **6**

MATH0009-6 *General mathematics II* - Françoise BASTIN Q2 15 15 - **3**

STAT0807-1 *Descriptive statistics* - Arnout VAN MESSEM Q1 10 10 - **2**

STAT0808-1	<i>Inferential statistics</i> - Amir ABOUBACAR	Q1	20	20	-	<b>4</b>
STAT0750-1	<i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM	Q2	10	10	-	<b>2</b>
PHYS0985-1	<i>General physics I</i> - Philippe GHOSEZ	Q2	45	40	-	<b>8</b>
PHYS0986-1	<i>General physics II</i> - Alejandro SILHANEK	Q1	45	35	-	<b>6</b>
[...]	Bachelor in geography: general courses					
[...]	course from a programme in another field of education					