

#### Block view of the study programme

Or Th Pr Au Cr

#### Block 1

##### Cours obligatoires de la finalité

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

Les étudiants qui ont déjà suivi certains cours choisiront, en accord avec le Jury, des cours alternatifs dans le programme de cours de l'Université de Liège pour le même nombre de crédits.

##### Cours obligatoires du tronc commun

##### Core courses common to the study paths

GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	Q2	10	20	-	3
CLIM0026-1	<i>Global warming and natural risks</i> (english language) - Xavier FETTWEIS, JeanPascal VAN YPERSELE	Q2	10	20	-	3
GEOG2028-1	<i>Introduction to spatial planning: planning systems and the major challenges of the contemporary world</i> - JeanMarie HALLEUX - [1d FW]	Q1	15	15	[+]	3
GEOG0057-1	<i>Spatial analysis</i> - François JONARD	Q2	30	30	-	5

##### Courses specific to the Study Path

GEOG0037-1	<i>Global Navigation Satellite Systems</i> - René WARNANT	Q1	40	15	-	5
GEOG0626-1	<i>Observation Theory</i> (english language) - N...	Q1	20	30	-	5
GEOG0060-1	<i>Remote sensing</i> - François JONARD	Q1	30	30	-	5
GEOG0053-1	<i>Topography</i> (english language) - Part A - N... - Part B - N... - [1d FW]	Q1				5
			20	10	-	
			10	5	[+]	
GEOG0059-1	<i>Infrastructures of spatial data</i> - Roland BILLEN, JeanPaul KASPRZYK	Q1	30	30	-	5
GEOG0062-1	<i>Geovisualization</i> - Pierre HALLOT	Q2	30	30	-	5

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 Université of Liège course programme for the same number of credits.

#### Block 2

##### Cours obligatoires de la finalité

ELEN0062-1	<i>Introduction to machine learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	5
GEOG0069-1	<i>Advanced GIS</i> - Roland BILLEN	Q1	30	30	-	4
GEOG0070-1	<i>GIS project</i> - Roland BILLEN - [80h Proj.]	Q2	-	-	[+]	5

Les étudiants qui ont déjà suivi certains cours choisiront, en accord avec le Jury, des cours alternatifs dans le programme de cours de l'Université de Liège pour le même nombre de crédits.

##### Cours obligatoires du tronc commun

##### Core courses common to the study paths

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

##### Courses specific to the Study Path

GEOG0063-1	<i>3D data acquisition and processing</i> (english language) - N... - [2d FW]	Q1	10	40	[+]	5
GEOG0038-1	<i>GNSS data processing</i> - René WARNANT	Q1	25	30	-	5

#### Cours au choix du tronc commun

##### Courses specific to the Study Path

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

GCIV0184-5	<i>Building Materials</i> - Luc COURARD, Anne HABRAKEN - [0,5d FW, 12h Labo., 12h Proj.]	Q2	36	16	[+]	5
GEOG0066-1	<i>GNSS project</i> - René WARNANT - [60h Proj.]	Q2	5	10	[+]	5
GEOG0067-1	<i>Remote sensing project</i> - François JONARD - [80h Proj.]	Q2	-	-	[+]	5
GEOG0618-1	<i>Urban and territorial economy: real estate markets</i> - JeanMarie HALLEUX	Q2	15	10	-	3
SPOL2209-3	<i>Territorial development and the environment: Policies and legal aspects</i> - Sophie HANSON	Q1	30	-	-	2
INFO8010-1	<i>Deep learning</i> (english language) - Gilles LOUPPE - [60h Proj.]	Q2	30	-	[+]	5
PHYS0999-1	<i>Digital creation in sciences</i> - Roland BILLEN, Valentin FISCHER, Pierre MATHONET, JeanChristophe MONBALIU, Eric PARMENTIER, Nicolas VANDEWALLE - [30h Proj.]	TA	10	-	[+]	5

[...] the courses programme from other study fields of the Faculty of Sciences, from other faculties or from other universities

#### 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	<i>Introduction to computer programming</i> - Peter SCHLAGHECK	Q2	20	40	-	5
MATH0509-1	<i>General mathematics I</i> - Arnout VAN MESSEM	Q1	25	30	-	6
MATH0009-6	<i>General mathematics II</i> - Françoise BASTIN	Q2	15	15	-	3
STAT0807-1	<i>Descriptive statistics</i> - Arnout VAN MESSEM	Q1	10	10	-	2
STAT0808-1	<i>Inferential statistics</i> - Samuel NICOLAY	Q1	20	20	-	4
STAT0750-1	<i>Multivariate statistical analysis (software R)</i> - Arnout VAN MESSEM	Q2	10	10	-	2
PHYS0985-1	<i>General physics I</i> - Philippe GHOSEZ	Q2	45	40	-	8
PHYS0986-1	<i>General physics II</i> - Alejandro SILHANEK	Q1	45	35	-	6

[...] Bachelor in geography: general courses

[...] course from a programme in another field of education