

## Two-Year Master Program (120 ECTS)

### First Year

#### Compulsory courses

GEOG0234-1	<i>Photogrammetry - N...</i> - Suppl : Albert COLLIGNON	30	15	-	<b>5</b>
GEOG0238-1	<i>Geographical Information Systems</i> - Jean-Paul DONNAY	30	30	-	<b>6</b>
GEOG0622-1	<i>Project management</i> - Jean-Paul DONNAY	10	10	-	<b>2</b>

#### Optional courses

Choose one option from the following :

##### Option Surveyor 1

GEOG0019-2	<i>Applied Surveying</i> - Roland BILLEN	30	40	-	<b>6</b>
GEOG0022-1	<i>Integrated Geomatics Project</i> - Roland BILLEN, Jean-Paul DONNAY - [80h FW]	-	-	[+]	<b>8</b>
GEOG0645-1	<i>Professional practices: the geometrist</i> - N...	20	10	-	<b>3</b>
GCIV0621-1	<i>Urban and environmental hydraulics</i> - Michel PIROTTON	25	25	-	<b>5</b>
GEOG0603-1	<i>Analysis and management of landscapes</i> - Serge SCHMITZ - [2d FW]	15	15	[+]	<b>3</b>
GEOG0647-1	<i>Seminars (1st part)</i> - COLLÉGIALITÉ - [3d FW]	20	-	[+]	<b>4</b>

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##### Option Applied Geomatics 1

GEOG0255-1	<i>Space analysis and S.I.G.</i> - Jean-Paul DONNAY	30	30	-	<b>6</b>
GEOG0024-1	<i>Remote Sensing</i> - Yves CORNET	30	30	-	<b>6</b>
GEOG0232-4	<i>Surveying : Equipments and Methods</i> - Roland BILLEN - [2d FW]	30	15	[+]	<b>6</b>
GEOG0206-1	<i>Cartography (with an introduction to GIS)</i> - Jean-Paul DONNAY	30	40	-	<b>7</b>
PHYS0209-2	<i>Numerical methods in physics</i> - Thierry BASTIN	15	20	-	<b>4</b>

Choose a second option from :

##### Option Surveyor 2

	<u>Requisite</u>	"Option Géomètre 1"			
ARCH0113-1	<i>Technical elements of building construction</i> - Jean-Marie HAUGLUSTAINE	30	-	-	<b>4</b>
GCIV0620-1	<i>Introduction to geotechnics</i> - Robert CHARLIER - [1d FW]	30	20	[+]	<b>5</b>
SPOL2209-3	<i>Politics of sustainable development (land and environment)</i> - Quentin MICHEL	30	-	-	<b>3</b>
GEOG0607-2	<i>Topoclimatology</i> - Michel ERPICUM - [1d FW]	15	15	[+]	<b>3</b>

Choose one of the following courses :

GEOG0033-2	<i>Applied Hydrology</i> - François PETIT - [1d FW]	15	15	[+]	<b>3</b>
ESHY0016-1	<i>Ecology Applied to Urban Planning and Land Management (partim I)</i> - Emmanuël SÉRUSIAUX	15	15	-	<b>3</b>
GEOL0238-1	<i>Groundwater production, protection and remediation</i> - Alain DASSARGUES	15	15	-	<b>3</b>

##### Option Applied Geomatics 2

	<u>Requisite</u>	"Option Géomatique appliquée 1"			
ASTR0213-1	<i>Geometric Geodesy and Positional Astronomy</i> - René WARNANT - [1d FW]	30	15	[+]	<b>5</b>
INFO0062-1	<i>Object-Oriented Programming</i> - Bernard BOIGELOT	30	30	-	<b>5</b>
INFO0009-1	<i>Introduction to Data Bases</i> - Pierre WOLPER	30	30	-	<b>6</b>
GEOG0647-3	<i>Seminars (1st part)</i> - COLLÉGIALITÉ - [1d FW]	10	-	[+]	<b>2</b>

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### Second year

**Compulsory courses**

GEOG0025-1	<i>Research Design in Spatial Sciences</i> - Jean-Paul DONNAY	10	10	-	<b>2</b>
GEOG0648-1	<i>Questions relating to Geomatics</i> - COLLÉGIALITÉ	20	30	-	<b>5</b>
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SMEM0002-1	<i>Final thesis</i> - COLLÉGIALITÉ	-	-	-	<b>20</b>
GEOG0658-1	<i>Final thesis supervision</i> - COLLÉGIALITÉ	-	-	-	<b>3</b>

**Choose one focus from the following :**

**Professional Focus in Applied Geomatics**

**Compulsory courses**

GEOG0216-2	<i>Cartographic projections</i> - Jean-Paul DONNAY	15	25	-	<b>4</b>
GEOG0625-1	<i>Global Navigation Satellite Systems</i> - René WARNANT	25	5	-	<b>3</b>
GEOG0649-3	<i>Seminars (2nd part)</i> - COLLÉGIALITÉ - [1d FW]	20	-	[+]	<b>2</b>
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GEOG0603-1	<i>Analysis and management of landscapes</i> - Serge SCHMITZ - [2d FW]	15	15	[+]	<b>3</b>
GEOG0607-2	<i>Topoclimatology</i> - Michel ERPICUM - [1d FW]	15	15	[+]	<b>3</b>

**Optional courses**

**Choose one module from :**

**Land settlement**

SPOL2209-3	<i>Politics of sustainable development (land and environment)</i> - Quentin MICHEL	30	-	-	<b>3</b>
ESHY0016-1	<i>Ecology Applied to Urban Planning and Land Management (partim I)</i> - Emmanuel SÉRUSIAUX	15	15	-	<b>3</b>
GEOG0638-1	<i>Town and country planning</i> - Jean-Marie HALLEUX	20	20	-	<b>4</b>
GEOG0618-2	<i>Real estate markets</i> - Jean-Marie HALLEUX	15	10	-	<b>3</b>
GEOG0650-1	<i>Impact studies</i> - Guénaël DEVILLET	10	10	-	<b>2</b>

**Hydrology**

GEOG0033-2	<i>Applied Hydrology</i> - François PETIT - [1d FW]	15	15	[+]	<b>3</b>
ESHY0063-1	<i>Modelling physical and chemical processes applied to the environment</i> - Louis FRANÇOIS	20	20	-	<b>4</b>
GEOL0238-1	<i>Groundwater production, protection and remediation</i> - Alain DASSARGUES	15	15	-	<b>3</b>
GCIV0621-1	<i>Urban and environmental hydraulics</i> - Michel PIROTON	25	25	-	<b>5</b>

**Other module**

Other optional module proposed by the partner universities : Montpellier (France) and Sherbrooke (Quebec)

**Professional Focus in Surveyor**

**Compulsory courses**

GCIV0622-1	<i>Construction: materials and maintenance</i> - Luc COURARD	45	10	-	<b>6</b>
INFO0010-2	<i>Introduction to Computer Networks</i> - Guy LEDUC	30	15	-	<b>5</b>
SSTG0020-1	<i>Training</i> - COLLÉGIALITÉ - [120h Internship]	-	-	[+]	<b>9</b>
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GEOG0649-3	<i>Seminars (2nd part)</i> - COLLÉGIALITÉ - [1d FW]	20	-	[+]	<b>2</b>
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ARCH0059-1	<i>Pathology of buildings</i> - N... - Suppl : Jean-Marie BLEUS	15	-	-	<b>3</b>
GEST0188-2	<i>Determination and Recognition of Quality and Conformity</i> - Jean-Marie RIGO	20	10	-	<b>3</b>
GEOG0650-1	<i>Impact studies</i> - Guénaël DEVILLET	10	10	-	<b>2</b>