

## Two-Year Master Program (120 ECTS)

### First Year

#### Compulsory courses

STAT0723-2	<i>statistical linear models</i> - Paul GÉRARD - [20h Mon. WS]	30	10	[+]	7
STAT0201-3	<i>Multivariate statistics</i> - Adelin ALBERT - [20h Mon. WS]	30	10	[+]	7
STAT0724-2	<i>Discrete data analysis</i> - Sophie VANBELLE - [20h Mon. WS]	30	10	[+]	6
STAT0725-2	<i>Bayesian statistics</i> - Philippe LAMBERT - [20h Mon. WS]	30	10	[+]	6
STAT0726-3	<i>Statistics software and data interpretation</i> - COLLÉGIALITÉ, Gentiane HAESBROECK - [10h Mon. WS]	30	10	[+]	5
STAT0727-2	<i>Non-parametric statistics</i> - Cédric HEUCHENNE - [20h Mon. WS]	30	10	[+]	7
STAT0728-2	<i>Capita selecta I</i> - - Suppl : Christophe CROUX - [20h Mon. WS]	30	10	[+]	6
	<i>Notice</i> : Guest lecturer				
STRA0012-1	<i>Seminar of statistics (first part)</i> - COLLÉGIALITÉ, Gentiane HAESBROECK	-	-	-	4

#### Choose one of the following focus :

##### Research focus (part 1)

###### Compulsory courses

MATH0209-3	<i>Measure Theory</i> - Samuel NICOLAY - [20h Mon. WS]	30	10	[+]	6
MATH0461-1	<i>Introduction to numerical optimization (english)</i> - Quentin LOUVEAUX	30	30	-	6

##### Professional focus (part 1)

###### Compulsory courses

STAT0710-2	<i>Statistical methods in epidemiology</i> - Adelin ALBERT	20	20	-	4
MQGE0001-3	<i>Operations Research (english)</i> - Yves CRAMA	20	20	-	4
STAT0162-2	<i>Statistical analysis of qualitative and quantitative data in social sciences</i> - Philippe LAMBERT	20	20	-	4

### Second year

#### Compulsory courses

ELEN0062-1	<i>Applied Inductive Learning</i> - Pierre GEURTS, Louis WEHENKEL	30	30	-	6
STAT0805-2	<i>Capita selecta II</i> - - Suppl : Christophe CROUX - [20h Mon. WS]	30	10	[+]	6
	<i>Notice</i> : Guest lecturer				
STRA0013-1	<i>Seminar of statistics (Second part)</i> - COLLÉGIALITÉ - [40h SEM]	-	-	[+]	4
SMEM0036-1	<i>Thesis</i> - COLLÉGIALITÉ	-	-	-	26

#### Follow-up to the focus chosen in first year :

##### Research focus (part 2)

###### Compulsory courses

MATH0222-3	<i>Introduction to stochastic processes</i> - Gentiane HAESBROECK - [20h Mon. WS]	30	10	[+]	6
MATH0221-3	<i>Analysis of time series</i> - Paul GÉRARD - [20h Mon. WS]	30	10	[+]	6
STAT0729-2	<i>Survival analysis</i> - Gentiane HAESBROECK - [20h Mon. WS]	30	10	[+]	6

##### Professional focus (part 2)

###### Compulsory courses

INFO0009-1	<i>Introduction to Data Bases</i> - Pierre WOLPER	30	30	-	6
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GBIO0015-1	<i>A tour in genetic epidemiology</i> - Kristel VAN STEEN	15	15	-	<b>3</b>
HULG0158-1	<i>Experimental planification</i> - Jean-Jacques CLAUSTRIAUX, N...	30	30	-	<b>6</b>
VETE0377-1	<i>Applied mixed models</i> - Frédéric FARNIR	15	15	-	<b>3</b>