

## First Year

### Optional courses

With the agreement of the council of studies in mathematical sciences choose course for 60 credits in the two lists below and, possibly, in the program of other Master's degrees

#### First list

[...] At least 40 course from "Première liste"

MATH0463-1	<i>Functional Analysis I</i> - Jochen WENGENROTH - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0209-3	<i>Measure Theory</i> - Jochen WENGENROTH - [20h Mon. WS]	30	10	[+]	<b>10</b>
INFO0213-2	<i>Automata and formal languages theory</i> - Michel RIGO - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0220-2	<i>Functions of complex variables</i> - Jean-Pierre SCHNEIDERS - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0464-1	<i>Differential geometry II</i> - Pierre LECOMTE - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0017-3	<i>Mathematical Logic and Set Theory</i> - Georges HANSOUL - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0465-1	<i>Algebraic Topology</i> - Jean-Pierre SCHNEIDERS - [20h Mon. WS]	30	10	[+]	<b>10</b>

#### The second list

[...] At least 20 credits from courses from "Deuxième liste"

STAT0723-2	<i>statistical linear models</i> - Paul GÉRARD - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0221-3	<i>Analysis of time series</i> - Paul GÉRARD - [20h Mon. WS]	30	10	[+]	<b>10</b>
MATH0222-3	<i>Introduction to stochastic processes</i> - Gentiane HAESBROECK - [20h Mon. WS]	30	10	[+]	<b>10</b>
STAT0201-3	<i>Multivariate statistics</i> - Adelin ALBERT - [20h Mon. WS]	30	10	[+]	<b>10</b>
ASTR0201-4	<i>Astronomy</i> - Marc-Antoine DUPRET	30	30	-	<b>10</b>
PHYS0243-2	<i>Quantum Physics I</i> - Thierry BASTIN - [20h Mon. WS]	30	10	[+]	<b>10</b>
PHYS0203-2	<i>Statistical physics</i> - Nicolas VANDEWALLE - [20h Mon. WS]	30	10	[+]	<b>10</b>
MECA0204-2	<i>General Relativity and Cosmology</i> - Yves DE ROP - [20h Mon. WS]	30	10	[+]	<b>10</b>
SPAT0045-1	<i>Star evolution</i> - Marc-Antoine DUPRET	20	20	-	<b>5</b>
SPAT0044-1	<i>Star structures</i> - Marc-Antoine DUPRET	20	20	-	<b>5</b>
MECA0203-3	<i>Continuum Mechanics</i> - Pierre DAUBY - [20h Mon. WS]	30	10	[+]	<b>10</b>
PHYS0204-3	<i>Quantum Physics II</i> - Thierry BASTIN - [20h Mon. WS]	30	10	[+]	<b>10</b>
PHYS0205-2	<i>Further Physical Statistics</i> - Nicolas VANDEWALLE - [20h Mon. WS]	30	10	[+]	<b>10</b>

#### Programme of courses for other masters degrees

[...] At least 10 credits from courses of the University of Liège

### Optional free courses

AESS0252-1	<i>Introduction to mathematics didactics</i> - Marguerite GILOT	10	10	-	<b>2</b>
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