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First Year

Compulsory course

MATH0483-2 *History of mathematics* - Georges HANSOUL - [20h Mon. WS] 20 - [+] 4

Optional courses

With the approval of the Board of Studies in mathematics, choose courses totaling 56 credits from the two lists below, and possibly in the courses programme of other masters :

First list

[...] At least 32 credits from from "Première liste"

| | | | | | |
|------------|---|----|----|-----|---|
| MATH0463-1 | <i>Functional Analysis I</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0209-3 | <i>Measure Theory</i> - Samuel NICOLAY - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| INFO0213-2 | <i>Automata and formal languages theory</i> - Michel RIGO - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0220-2 | <i>Functions of complex variables</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0464-1 | <i>Differential geometry II</i> - Pierre LECOMTE - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0017-3 | <i>Mathematical Logic and Set Theory</i> - Georges HANSOUL - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0465-1 | <i>Algebraic Topology</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0489-1 | <i>Lie algebra</i> - Pierre MATHONET - [20h Mon. WS] | 30 | 10 | [+] | 8 |

The second list

[...] At most 24 credits of courses from "Deuxième liste"

| | | | | | |
|------------|---|----|----|-----|---|
| STAT0723-2 | <i>Linear models</i> - N... - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| STAT0201-3 | <i>Multivariate statistics</i> - Gentiane HAEBROECK - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| STAT0725-2 | <i>Bayesian statistics</i> - Philippe LAMBERT - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| INFO0902-1 | <i>Data structures and algorithms</i> - Pierre GEURTS | 30 | 30 | - | 8 |
| INFO0054-1 | <i>Functional programming</i> - Pascal GRIBOMONT | 30 | 30 | - | 8 |
| ASTR0201-3 | <i>Astronomy</i> - MarcAntoine DUPRET - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0243-2 | <i>Quantum Physics I</i> - Thierry BASTIN - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0203-2 | <i>Statistical physics</i> - Nicolas VANDEWALLE - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| SPAT0012-1 | <i>General relativity</i> - Yves DE ROP | 60 | - | - | 8 |
| SPAT0044-1 | <i>Stellar Structure and evolution I</i> - MarcAntoine DUPRET | 20 | 20 | - | 4 |
| SPAT0045-1 | <i>Stellar structure and evolution II</i> - MarcAntoine DUPRET | 20 | 20 | - | 4 |
| MECA0203-3 | <i>Continuum Mechanics</i> - Pierre DAUBY - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0204-3 | <i>Complement of quantum Physics 2</i> - Thierry BASTIN - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0205-2 | <i>Complement of physical statistics</i> - Nicolas VANDEWALLE - [20h Mon. WS] | 30 | 10 | [+] | 8 |

Programme of courses for other masters degrees

[...] At the most 8 credits of courses of the University of Liege

Optional free course

AESS0252-1 *Introduction to mathematics didactics* - Marguerite GILOT 10 10 - 2

Second Year

Compulsory course

SMEM0012-1 *Final thesis* - COLLÉGIALITÉ - - - 22

Optional courses

With the approval of the Board of Studies in mathematics, choose course(s) totaling 8 credits from :

[...] the remaining courses not selected in the first list

| | | | | | |
|------------|---|----|----|-----|---|
| MATH0463-1 | <i>Functional Analysis I</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0209-3 | <i>Measure Theory</i> - Samuel NICOLAY - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| INFO0213-2 | <i>Automata and formal languages theory</i> - Michel RIGO - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0220-2 | <i>Functions of complex variables</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0464-1 | <i>Differential geometry II</i> - Pierre LECOMTE - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0017-3 | <i>Mathematical Logic and Set Theory</i> - Georges HANSOUL - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| MATH0465-1 | <i>Algebraic Topology</i> - JeanPierre SCHNEIDERS - [20h Mon. WS] | 30 | 10 | [+] | 8 |

| | | | | | |
|------------|---|----|----|-----|---|
| MATH0489-1 | <i>Lie algebra</i> - Pierre MATHONET - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| [...] | the remaining courses not taken on the second list | | | | |
| STAT0723-2 | <i>Linear models</i> - N... - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| STAT0201-3 | <i>Multivariate statistics</i> - Gentiane HAESBROECK - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| STAT0725-2 | <i>Bayesian statistics</i> - Philippe LAMBERT - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| INFO0902-1 | <i>Data structures and algorithms</i> - Pierre GEURTS | 30 | 30 | - | 8 |
| INFO0054-1 | <i>Functional programming</i> - Pascal GRIBOMONT | 30 | 30 | - | 8 |
| ASTR0201-3 | <i>Astronomy</i> - MarcAntoine DUPRET - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0243-2 | <i>Quantum Physics I</i> - Thierry BASTIN - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0203-2 | <i>Statistical physics</i> - Nicolas VANDEWALLE - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| SPAT0012-1 | <i>General relativity</i> - Yves DE ROP | 60 | - | - | 8 |
| SPAT0044-1 | <i>Stellar Structure and evolution I</i> - MarcAntoine DUPRET | 20 | 20 | - | 4 |
| SPAT0045-1 | <i>Stellar structure and evolution II</i> - MarcAntoine DUPRET | 20 | 20 | - | 4 |
| MECA0203-3 | <i>Continuum Mechanics</i> - Pierre DAUBY - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0204-3 | <i>Complement of quantum Physics 2</i> - Thierry BASTIN - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| PHYS0205-2 | <i>Complement of physical statistics</i> - Nicolas VANDEWALLE - [20h Mon. WS] | 30 | 10 | [+] | 8 |
| [...] | The programme of courses for other Masters. | | | | |

Compulsory courses

| | | | | | |
|------------|--|----|----|---|---|
| INFO0062-1 | <i>Object-Oriented Programming</i> - Bernard BOIGELOT | 30 | 30 | - | 6 |
| INFO0009-1 | <i>Database (general organisation)</i> - Pierre WOLPER | 30 | 30 | - | 6 |

Optional courses

With the agreement of the Board of Studies, choose 3 courses from the following :

The courses INFO0902-1 and INFO0054-1 must be taken first.

| | | | | | |
|------------|---|----|----|---|---|
| INFO0902-1 | <i>Data structures and algorithms</i> - Pierre GEURTS | 30 | 30 | - | 6 |
| INFO0054-1 | <i>Functional programming</i> - Pascal GRIBOMONT | 30 | 30 | - | 6 |

If the INFO0902-1 and/or INFO0054-1 courses have already been followed, choose, with the approval of the Board of Studies, 1, 2 or 3 courses from the following :

| | | | | | |
|------------|---|----|----|---|---|
| ELEN0040-1 | <i>Digital Electronics</i> - Jacques DESTINÉ | 30 | 30 | - | 6 |
| INFO0085-1 | <i>Compilers</i> - Pierre GEURTS | 30 | 30 | - | 6 |
| INFO0027-2 | <i>Programming techniques</i> (english language) - Laurent MATHY | 30 | 30 | - | 6 |
| MATH0462-1 | <i>Discrete optimization</i> (english language) - Quentin LOUVEAUX - Suppl : Bertrand CORNÉLUSSE | 30 | 30 | - | 6 |
| SYST0002-1 | <i>Modelling and analysis systems</i> - Rodolphe SEPULCHRE - Suppl : Erik QUAEGHEBEUR | 30 | 30 | - | 6 |
| INFO0049-1 | <i>Knowledge representation</i> (english language) - Pascal GRIBOMONT | 30 | 30 | - | 6 |