

Vue cycle du programme des cours

B1 Or Th Pr Au Cr

Cours à suivre afin d'obtenir un diplôme de master en sciences informatiques.

Cours obligatoires (B1 : 40Cr)

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|------------|--|----|----|----|----|-----|-----------|
| INFO0016-1 | <i>Introduction to the theory of computation</i> (anglais) - Quentin LOUVEAUX | B1 | Q1 | 26 | 26 | - | 5 |
| ELEN0062-1 | <i>Introduction to machine learning</i> (anglais) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.] | B1 | Q1 | 30 | 5 | [+] | 5 |
| INFO0940-1 | <i>Operating systems</i> (anglais) - Laurent MATHY - [30h Proj.] | B1 | Q2 | 30 | 6 | [+] | 5 |
| PROJ0010-1 | <i>Software project engineering and management</i> (anglais) - Benoît DONNET, Bernard HAUZEUR, Guy LEDUC, Laurent MATHY - [280h Proj.] | B1 | TA | 20 | - | [+] | 10 |
| PROJ0019-1 | <i>End of studies project</i> (anglais) - Laurent MATHY - [300h Proj.] | B1 | TA | - | - | [+] | 10 |
| INFO0012-2 | <i>Computation structures</i> (anglais) - Pascal FONTAINE, Laurent MATHY - [40h Proj.] | B1 | Q1 | 26 | 26 | [+] | 5 |

Cours au choix (B1 : 30Cr)

Choisir une finalité parmi : (B1 : 30Cr)

Finalité spécialisée "Computer systems security" (B1 : 30Cr)

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|------------|---|----|----|----|---|-----|----------|
| INFO0031-1 | <i>Network Engineering</i> (anglais) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.] | B1 | Q2 | 30 | - | [+] | 5 |
| INFO0045-3 | <i>Introduction to computer security</i> (anglais) - Benoît DONNET - [10h Labo., 30h Proj.] | B1 | Q1 | 30 | 6 | [+] | 5 |

Choisir des cours pour un total de 20 crédits parmi : (B1 : 20Cr)

Computer Science foundation courses

The following courses (INFO8006-1, INFO0010-4) are prerequisite to some compulsory courses of the master program. They must be taken as a priority, unless they were already passed as part of another programme, or unless the corresponding knowledge and skills have been acquired previously.

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|------------|---|----|----|----|----|-----|----------|
| INFO8006-1 | <i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.] | B1 | Q1 | 25 | 20 | [+] | 5 |
| | <i>Remarque</i> : Prerequisite of ELEN0062-1 | | | | | | |
| INFO0010-4 | <i>Introduction to computer networking</i> (anglais) - Guy LEDUC - [12h Labo., 40h Proj.] | B1 | Q1 | 32 | 2 | [+] | 5 |
| | <i>Remarque</i> : Prerequisite of PROJ0010-1 | | | | | | |
| INFO0064-2 | <i>Embedded systems</i> (anglais) - Bernard BOIGELOT | B1 | Q1 | 25 | 20 | - | 3 |
| INFO2055-1 | <i>Embedded systems project</i> (anglais) - Bernard BOIGELOT - [60h Proj.] | B1 | Q2 | - | - | [+] | 2 |
| INFO2051-1 | <i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.] | B1 | Q1 | 15 | 10 | [+] | 5 |
| INFO0056-1 | <i>Securing Networks</i> (anglais) - Guy LEDUC - [12h Labo., 30h Proj.] (années paires) | B1 | Q2 | 30 | - | [+] | 5 |
| INFO0939-1 | <i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.] | B1 | Q1 | 30 | 15 | [+] | 5 |
| INFO8002-1 | <i>Topics in Distributed Systems</i> (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Guy LEDUC, Laurent MATHY - [35h Proj.] (années impaires) | B1 | Q2 | 30 | - | [+] | 5 |
| INFO8012-1 | <i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) | B1 | Q2 | 30 | - | [+] | 5 |

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| INFO8011-1 | <i>Network infrastructures</i> (anglais) - Benoît DONNET, Guy LEDUC, Laurent MATHY - [8h Labo., 30h Proj.] | B1 | Q1 | 30 | - | [+] | 5 |
| INFO8013-1 | <i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires) | B1 | Q2 | 20 | - | [+] | 5 |
| INFO9016-1 | <i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.] | B1 | Q2 | 24 | 20 | [+] | 5 |

Finalité spécialisée "Intelligent systems" (B1 : 30Cr)

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|------------|--|----|----|----|---|-----|---|
| INFO8010-1 | <i>Deep learning</i> (anglais) - Gilles LOUPPE - [60h Proj.] | B1 | Q2 | 30 | - | [+] | 5 |
|------------|--|----|----|----|---|-----|---|

Choisir des cours pour un total de 25 crédits parmi : (B1 : 25Cr)

Computer Science foundation courses

The following courses (INFO8006-1, INFO0010-4) are prerequisite to some compulsory courses of the master program. They must be taken as a priority, unless they were already passed as part of another programme, or unless the corresponding knowledge and skills have been acquired previously.

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|------------|---|----|----|----|----|-----|---|
| INFO8006-1 | <i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.] <i>Remarque</i> : Prerequisite of ELEN0062-1 | B1 | Q1 | 25 | 20 | [+] | 5 |
| INFO0010-4 | <i>Introduction to computer networking</i> (anglais) - Guy LEDUC - [12h Labo., 40h Proj.] <i>Remarque</i> : Prerequisite of PROJ0010-1 | B1 | Q1 | 32 | 2 | [+] | 5 |
| ELEN0016-2 | <i>Computer vision</i> (anglais) - Marc VAN DROOGENBROECK - [50h Proj.] | B1 | Q1 | 30 | 10 | [+] | 5 |
| INFO0948-2 | <i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.] | B1 | Q2 | 30 | 4 | [+] | 5 |
| INFO2049-1 | <i>Web and Text Analytics</i> (anglais) - Ashwin ITTOO | B1 | Q1 | 30 | - | - | 5 |
| GBIO0002-1 | <i>Genetics and bioinformatics</i> (anglais) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.] | B1 | Q1 | 30 | 15 | [+] | 5 |
| DROI1357-1 | <i>European law, (big) data and artificial intelligence applications seminar</i> (anglais) - - Suppl : Ljupcho GROZDANOVSKI | B1 | Q1 | 24 | - | - | 5 |
| INFO8003-1 | <i>Optimal decision making for complex problems</i> (anglais) - Damien ERNST - [45h Proj.] | B1 | Q2 | 25 | 10 | [+] | 5 |
| INFO8004-1 | <i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.] | B1 | Q2 | 25 | - | [+] | 5 |
| INFO9014-1 | <i>Knowledge representation and reasoning</i> (anglais) - Christophe DEBRUYNE - [45h Proj.] | B1 | Q2 | 24 | 20 | [+] | 5 |