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First Year

Compulsory Courses

Notice : the first year of the master in computer science is taught in English.

INFO0085-2	<i>Compilers</i> - Pierre GEURTS	20	40	-	6
INFO0031-1	<i>Computer network architectures and multimedia</i> (english language) - Guy LEDUC	30	30	-	6
INFO0051-1	<i>Logic</i> (english language) - Pascal GRIBOMONT	30	30	-	6
INFO0063-1	<i>Object-oriented software engineering</i> (english language) - Bernard BOIGELOT	30	30	-	6
INFO0016-1	<i>Introduction to the theory of computation</i> (english language) - Pierre WOLPER	30	30	-	6
INFO0045-2	<i>Introduction to computer security</i> (english language) - Benoît DONNET	30	30	-	6

Optional courses

Students will choose 24 credits from the list of optional courses below :

INFO0049-1	<i>Knowledge representation</i> (english language) - Pascal GRIBOMONT	30	30	-	6
INFO0056-1	<i>Managing and securing computer networks</i> (english language) - Guy LEDUC	30	30	-	6
ELEN0016-1	<i>Digital image and video processing</i> (english language) - Marc VAN DROOGENBROECK	30	30	-	6
INFO0026-3	<i>Computer Graphics</i> - Eric BÉCHET	30	30	-	6
INFO0939-1	<i>High performance scientific computing</i> (english language) - Christophe GEUZAINÉ	30	30	-	6
INFO0941-1	<i>Network measurement and monitoring</i> (english language) - Benoît DONNET	10	50	-	6
ASTG0021-1	<i>Internship</i> (english language) - COLLÉGIALITÉ	-	-	-	12

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INFO0051-1	<i>Logic</i> (english language) - Pascal GRIBOMONT	30	30	-	6
INFO0063-1	<i>Object-oriented software engineering</i> (english language) - Bernard BOIGELOT	30	30	-	6
INFO0016-1	<i>Introduction to the theory of computation</i> (english language) - Pierre WOLPER	30	30	-	6
MATH0006-3	<i>Introduction to numerical analysis</i> (english language) - Quentin LOUVEAUX - Suppl : Christophe GEUZAINÉ	20	20	-	4
INFO0039-2	<i>Object-Oriented Programming Project, I</i> - Pierre WOLPER	-	90	-	8
INFO0045-2	<i>Introduction to computer security</i> (english language) - Benoît DONNET	30	30	-	6

Optional courses

[...] Students choose 12 credits from the list of optional courses from the first year of this master degree.

Second Year

Compulsory courses

ATFE0002-1	<i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ	-	-	-	24
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Optional courses

[...] Choose 6 credits in the University's programme of courses; this choice must have the approval of the cycle's Jury president

Compulsory courses

MATH0462-1	<i>Discrete optimization</i> (english language) - Quentin LOUVEAUX - Suppl : Bertrand CORNÉLUSSE	30	30	-	6
INFO0064-1	<i>Embedded systems</i> (english language) - Bernard BOIGELOT	30	30	-	6
ELEN0062-1	<i>Applied Inductive Learning</i> - Pierre GEURTS, Louis WEHENKEL	30	30	-	6

Optional courses

Choose courses totalling 12 ECTS from the following :

ELEN0070-1	<i>Signal processing</i> (english language) - Jacques VERLY	30	30	-	6
GBIO0009-1	<i>Bioinformatics</i> (english language) - Kristel VAN STEEN	30	30	-	6
INFO0050-1	<i>Constrained programming</i> - Pascal GRIBOMONT	30	30	-	6
INFO0060-1	<i>Concurrent system verification and temporal logic</i> (english language) - Bernard BOIGELOT, Pascal GRIBOMONT, Pierre WOLPER	30	30	-	6
MATH0461-1	<i>Introduction to numerical optimization</i> (english language) - Pierre DUYSINX, Quentin LOUVEAUX	30	30	-	6
INFO2046-1	<i>Computational Geometry</i> - Eric BÉCHET	30	30	-	6
ELEN0019-1	<i>Treatment of the audio signals : principles and experiments</i> - JeanJacques EMBRECHTS	30	30	-	6
ELEN0002-1	<i>Introduction to Audio and Video Techniques</i> - JeanJacques EMBRECHTS	30	30	-	6
INFO0940-1	<i>Operating systems</i> (english language) - Laurent MATHY	30	30	-	6
INFO0948-1	<i>Introduction to intelligent robotics</i> (english language) - Renaud DETRY	30	30	-	6

Compulsory courses

ATFE0002-1	<i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ	-	-	-	24
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Optional courses

Choose one course among the following (6 credits) :

List of optional courses not taken in the first year of the master's degree.					6
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