

**Vue cycle du programme des cours**

		B1	Or	Th	Pr	Au	Cr
<b>Compulsory courses (B1 : 50Cr)</b>							
INFO0085-1	<i>Compilers</i> (anglais) - Pascal FONTAINE - [75h Proj.] <b>Corequis :</b> INFO0016-1 - Introduction to the theory of computation	B1	Q2	25	-	[+]	5
ELEN0062-1	<i>Introduction to machine learning</i> (anglais) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	B1	Q1	30	5	[+]	5
ELEN0060-2	<i>Information and coding theory</i> (anglais) - Louis WEHENKEL - [30h Proj.]	B1	Q2	30	15	[+]	5
INFO0016-1	<i>Introduction to the theory of computation</i> (anglais) - Quentin LOUVEAUX	B1	Q1	26	26	-	5
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [10h Labo., 30h Proj.]	B1	Q1	30	6	[+]	5
ATFE0003-1	<i>Master thesis</i> (anglais) - COLLÉGIALITÉ, Laurent MATHY - [750h Proj.]	B1	TA	-	-	[+]	25
<b>Optional courses (B1 : 10Cr)</b>							
[...]	With the agreement of the jury, students choose 10 credits (with the exception of an internship or personal project) in the programme of the Master 120 of Science in Computer science						

**Crédits supplémentaires Master en sciences informatiques (60 ECTS) (destinés aux bacheliers Hautes Ecoles en sciences informatiques)**

The following courses must be taken in addition to the programme of the "Master 60 for bachelors in computer science". Among these courses, those belonging to the "bloc 0" are prerequisites of the "Master 60" programme and must necessarily be taken during the first year of the master.

**Compulsory courses (B0 : 57Cr)**

MATH0500-1	<i>Introduction à l'algorithmique numérique</i> - Quentin LOUVEAUX - [6h Labo., 45h Proj.]	B0	Q1	24	14	[+]	5
INFO0902-1	<i>Structures des données et algorithmes</i> - Pierre GEURTS - [40h Proj.]	B0	Q2	26	20	[+]	5
INFO9012-1	<i>Parallel Programming</i> (anglais) - Pascal FONTAINE	B0	Q2	25	25	-	5
INFO0010-4	<i>Introduction to computer networking</i> (anglais) - Guy LEDUC - [12h Labo., 40h Proj.]	B0	Q1	32	2	[+]	5
INFO0012-2	<i>Computation structures</i> (anglais) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	B0	Q1	26	26	[+]	5
INFO0940-1	<i>Operating systems</i> (anglais) - Laurent MATHY - [30h Proj.]	B0	Q2	30	6	[+]	5
INFO0062-1	<i>Object-oriented programming</i> (anglais) - Bernard BOIGELOT - [20h Proj.]	B0	Q2	25	20	[+]	5
INFO0054-1	<i>Programmation fonctionnelle</i> - Christophe DEBRUYNE - [20h Proj.]	B0	Q1	24	24	[+]	5
MATH2019-1	<i>Mathématiques pour l'informatique 1</i> - Emilie CHARLIER	B0	Q1	26	26	-	5
INFO0027-3	<i>Programming techniques, Software patterns</i> (anglais) - Laurent MATHY - [30h Proj.]	B0	Q2	10	10	[+]	2
MATH0495-1	<i>Éléments du calcul des probabilités</i> - Laurent LOOSVELDT - [5h Proj.]	B0	Q1	26	26	[+]	5
INFO8006-1	<i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.]	B0	Q1	25	20	[+]	5

**Optional courses (B0 : 3Cr)**

Students who pass the entrance test may replace LANG6011-1 with the advanced course LANG0988-1 "Advanced for

ICT studies". (B0 : 3Cr)

LANG6011-1	<i>Remedial English for Computer Science</i> (anglais) - Adnan VESSEUR	B0	Q2	3	27	-	<b>3</b>
LANG0988-1	<i>Advanced English for ICT studies</i> (anglais) - Adnan VESSEUR	B0	Q1	5	25	-	<b>3</b>