

## Vue bloc du programme des cours

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### Bloc 1

Depending on your track record or your professional/research focus, some prerequisites/corequisites of your first year program might appear in bloc 2. You are therefore invited to go through the list of courses suggested in bloc 2 even if you enroll for the first time in this master program.

#### Compulsory courses from the core curriculum

INFO0085-1	<i>Compilers</i> (anglais) - Pascal FONTAINE - [75h Proj.] <b>Corequis :</b> INFO0940-1 - Operating systems INFO0012-2 - Computation structures INFO0902-1 - Structures des données et algorithmes INFO0016-1 - Introduction to the theory of computation	Q2	25	-	[+]	5
ELEN0062-1	<i>Introduction to machine learning</i> (anglais) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	Q1	30	5	[+]	5
INFO0016-1	<i>Introduction to the theory of computation</i> (anglais) - Quentin LOUVEAUX	Q1	26	26	-	5
PROJ0010-1	<i>Software project engineering and management</i> (anglais) - Benoît DONNET, Bernard HAUZEUR, Laurent MATHY - [280h Proj.] <b>Prérequis :</b> INFO0062-1 - Object-oriented programming INFO0010-4 - Introduction to computer networking INFO0902-1 - Structures des données et algorithmes	TA	20	-	[+]	10
GEST3162-1	<i>Principles of management</i> (anglais) - Michaël PARMENTIER, Willem STANDAERT - [25h Proj.]	Q1	30	-	[+]	5

#### Optional courses from the core curriculum

Choose 10 credits in the lists below :

[...] With the agreement of the jury, choose 5 credits in any course programme of the University or from the UNIC course catalog.

#### Computer Science foundation courses

**The following courses are corequisite to some compulsory courses of the master program. They must be taken as a priority, unless they were already taken as part of the bachelor in computer science, or unless the corresponding knowledge and skills have been acquired previously (Are involved in these courses bachelors in "Informatique de gestion" and "Informatique et systèmes who must take these courses during the block 1").**

MATH0006-3	<i>Introduction to numerical analysis</i> (anglais) - Quentin LOUVEAUX	Q1	20	20	-	5
INFO0902-1	<i>Structures des données et algorithmes</i> - Pierre GEURTS - [40h Proj.]	Q2	26	20	[+]	5
INFO0010-4	<i>Introduction to computer networking</i> (anglais) - [12h Labo., 40h Proj.]	Q1	32	2	[+]	5
INFO0012-2	<i>Computation structures</i> (anglais) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	Q1	26	26	[+]	5
INFO0940-1	<i>Operating systems</i> (anglais) - Laurent MATHY - [30h Proj.]	Q2	30	6	[+]	5
INFO8006-1	<i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	5
ELEN0060-2	<i>Information and coding theory</i> (anglais) - Louis WEHENKEL - [30h Proj.]	Q2	30	15	[+]	5

#### Computer systems security

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [10h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0012-2 - Computation structures	Q1	30	6	[+]	5

	INFO0902-1 - Structures des données et algorithmes							
INFO0056-1	<i>Securing Networks</i> (anglais) - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	5		
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5		
INFO8002-1	<i>Topics in Distributed Systems</i> (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Laurent MATHY - [35h Proj.] (années impaires)	Q2	30	-	[+]	5		
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0940-1 - Operating systems INFO0010-4 - Introduction to computer networking INFO0085-1 - Compilers	Q2	30	-	[+]	5		
INFO8011-1	<i>Network infrastructures</i> (anglais) - Benoît DONNET, Laurent MATHY - [8h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking	Q1	30	-	[+]	5		
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires) <b>Corequis :</b> INFO0045-3 - Introduction to computer security	Q2	20	-	[+]	5		
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	30	-	5		
<b>Intelligent Systems</b>								
INFO8010-1	<i>Deep learning</i> (anglais) - Gilles LOUPPE - [60h Proj.] <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q2	30	-	[+]	5		
ELEN0016-2	<i>Computer vision</i> (anglais) - Anthony CIOPPA, Adrien DELIÈGE, Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5		
INFO0948-2	<i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	5		
INFO9015-1	<i>Logic for Computer Science</i> (anglais) - Pascal FONTAINE	Q1	24	20	-	5		
INFO2049-1	<i>Artificial Intelligence Methods for Natural Language Processing</i> (anglais) - Ashwin ITTOO <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q1	30	-	-	5		
GBIO0002-1	<i>Genetics and bioinformatics</i> (anglais) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	5		
INFO8004-1	<i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.] <b>Corequis :</b> INFO8010-1 - Deep learning ELEN0062-1 - Introduction to machine learning	Q2	25	-	[+]	5		
INFO9014-1	<i>Knowledge representation and reasoning</i> (anglais) - Christophe DEBRUYNE - [45h Proj.] <b>Corequis :</b> INFO9015-1 - Logic for Computer Science	Q2	24	20	[+]	5		
INFO9023-1	<i>Machine Learning Systems Design</i> (anglais) - Thomas VRANCKEN - [17h Labo., 18h Proj.] <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	5		
INFO9030-1	<i>Explainable Artificial Intelligence</i> (anglais) - Vân Anh HUYNH THU - [50h	Q2	24	-	[+]	5		

	Proj.]							
ELEN0449-1	<i>Computer Vision understanding</i> (anglais) - Anthony CIOPPA - [50h Proj.]	Q2	24	10	[+]	5		
<b>Other optional courses</b>								
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	5		
INFO0064-2	<i>Embedded systems</i> (anglais) - Bernard BOIGELOT	Q1	25	20	-	3		
INFO2055-1	<i>Embedded systems project</i> (anglais) - Bernard BOIGELOT - [60h Proj.]	Q2	-	-	[+]	2		
	<b>Corequis :</b> INFO0064-2 - Embedded systems							
INFO0060-1	<i>Introduction to computer systems verification</i> (anglais) - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.]	Q2	20	20	[+]	5		
	<b>Corequis :</b> INFO9015-1 - Logic for Computer Science INFO0016-1 - Introduction to the theory of computation							
MECA0524-1	<i>CAD &amp; Geometric Algorithms</i> - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	5		
MATH0461-2	<i>Introduction to numerical optimization</i> (anglais) - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	5		
MATH0462-1	<i>Discrete optimization</i> (anglais) - Quentin LOUVEAUX - [25h Proj.]	Q2	30	20	[+]	5		
	<b>Corequis :</b> MATH0500-1 - Introduction à l'algorithmique numérique							
GBIO0030-1	<i>Computational approaches to statistical genetics</i> (anglais) - Kristel VAN STEEN - [35h Proj.]	Q2	25	15	[+]	5		
	<b>Prérequis :</b> GBIO0002-1 - Genetics and bioinformatics							
GBIO0031-1	<i>Learning from genomic data</i> (anglais) - Kristel VAN STEEN - [150h Proj.]	Q2	-	-	[+]	5		
	<b>Prérequis :</b> GBIO0002-1 - Genetics and bioinformatics							
INFO9012-1	<i>Parallel Programming</i> (anglais) - Pascal FONTAINE	Q2	25	25	-	5		
INFO9015-1	<i>Logic for Computer Science</i> (anglais) - Pascal FONTAINE	Q1	24	20	-	5		
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]	5		
MQGE9007-1	<i>Advanced Modeling Techniques in Optimization</i> (anglais) - Quentin LOUVEAUX, N...	Q1	30	-	-	5		
	<b>Corequis :</b> MATH0461-2 - Introduction to numerical optimization							

Students choosing this focus shall select, in addition to 10 credits of compulsory courses, 55 credits of elective courses inside or outside the focus. However, for his/her whole master program (block 1 and block 2), a total of 20 credits of options must be taken inside the focus. The regulation allows students to choose elective courses during the block of their choice, in accordance with the prerequisites and co-requisites. Students must also be attentive to schedule constraints.

#### Compulsory courses within the focus

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5		
	<b>Corequis :</b> INFO0010-4 - Introduction to computer networking							
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [10h Labo., 30h Proj.]	Q1	30	6	[+]	5		
	<b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0902-1 - Structures des données et algorithmes							

#### Optional courses within the focus

Choose 5 credits in the following list :

INFO0064-2	<i>Embedded systems</i> (anglais) - Bernard BOIGELOT	Q1	25	20	-	3		
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INFO2055-1	<i>Embedded systems project</i> (anglais) - Bernard BOIGELOT - [60h Proj.] <b>Corequis :</b> INFO0064-2 - Embedded systems	Q2	-	-	[+]	2
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	5
INFO0056-1	<i>Securing Networks</i> (anglais) - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Topics in Distributed Systems</i> (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Laurent MATHY - [35h Proj.] (années impaires)	Q2	30	-	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0085-1 - Compilers INFO0940-1 - Operating systems	Q2	30	-	[+]	5
INFO8011-1	<i>Network infrastructures</i> (anglais) - Benoît DONNET, Laurent MATHY - [8h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking	Q1	30	-	[+]	5
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires) <b>Corequis :</b> INFO0045-3 - Introduction to computer security	Q2	20	-	[+]	5
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]	5
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	30	-	5

## Bloc 2

### Compulsory courses from the core curriculum

ATFE0002-1	<i>Master thesis</i> (anglais) - COLLÉGIALITÉ, Laurent MATHY - [750h Proj.]	TA	-	-	[+]	25
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### Optional courses from the core curriculum

Choose 20 credits in the lists below :

[...] With the agreement of the jury, choose 5 credits in any course programme of the University or from the UNIC course catalog.

#### Computer systems security

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [10h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0012-2 - Computation structures INFO0902-1 - Structures des données et algorithmes	Q1	30	6	[+]	5
INFO0056-1	<i>Securing Networks</i> (anglais) - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5

INFO8002-1	<i>Topics in Distributed Systems</i> (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Laurent MATHY - [35h Proj.] (années impaires)	Q2	30	-	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0940-1 - Operating systems INFO0010-4 - Introduction to computer networking INFO0085-1 - Compilers	Q2	30	-	[+]	5
INFO8011-1	<i>Network infrastructures</i> (anglais) - Benoît DONNET, Laurent MATHY - [8h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking	Q1	30	-	[+]	5
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires) <b>Corequis :</b> INFO0045-3 - Introduction to computer security	Q2	20	-	[+]	5
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	30	-	5
<b>Intelligent Systems</b>						
INFO8010-1	<i>Deep learning</i> (anglais) - Gilles LOUPPE - [60h Proj.] <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q2	30	-	[+]	5
ELEN0016-2	<i>Computer vision</i> (anglais) - Anthony CIOPPA, Adrien DELIÈGE, Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5
INFO0948-2	<i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	5
INFO9015-1	<i>Logic for Computer Science</i> (anglais) - Pascal FONTAINE	Q1	24	20	-	5
INFO2049-1	<i>Artificial Intelligence Methods for Natural Language Processing</i> (anglais) - Ashwin ITTOO <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q1	30	-	-	5
GBIO0002-1	<i>Genetics and bioinformatics</i> (anglais) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	5
INFO8004-1	<i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.] <b>Corequis :</b> INFO8010-1 - Deep learning ELEN0062-1 - Introduction to machine learning	Q2	25	-	[+]	5
INFO9014-1	<i>Knowledge representation and reasoning</i> (anglais) - Christophe DEBRUYNE - [45h Proj.] <b>Corequis :</b> INFO9015-1 - Logic for Computer Science	Q2	24	20	[+]	5
INFO9023-1	<i>Machine Learning Systems Design</i> (anglais) - Thomas VRANCKEN - [17h Labo., 18h Proj.] <b>Corequis :</b> ELEN0062-1 - Introduction to machine learning	Q2	17	-	[+]	5
INFO9030-1	<i>Explainable Artificial Intelligence</i> (anglais) - Vân Anh HUYNH THU - [50h Proj.]	Q2	24	-	[+]	5
ELEN0449-1	<i>Computer Vision understanding</i> (anglais) - Anthony CIOPPA - [50h Proj.]	Q2	24	10	[+]	5
<b>Other optional courses</b>						
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	5
INFO0064-2	<i>Embedded systems</i> (anglais) - Bernard BOIGELOT	Q1	25	20	-	3

INFO2055-1	<i>Embedded systems project</i> (anglais) - Bernard BOIGELOT - [60h Proj.] <b>Corequis :</b> INFO0064-2 - Embedded systems	Q2	-	-	[+]	<b>2</b>
INFO0060-1	<i>Introduction to computer systems verification</i> (anglais) - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.] <b>Corequis :</b> INFO9015-1 - Logic for Computer Science INFO0016-1 - Introduction to the theory of computation	Q2	20	20	[+]	<b>5</b>
MECA0524-1	<i>CAD &amp; Geometric Algorithms</i> - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	<b>5</b>
MATH0461-2	<i>Introduction to numerical optimization</i> (anglais) - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	<b>5</b>
MATH0462-1	<i>Discrete optimization</i> (anglais) - Quentin LOUVEAUX - [25h Proj.] <b>Corequis :</b> MATH0500-1 - Introduction à l'algorithmique numérique	Q2	30	20	[+]	<b>5</b>
GBIO0030-1	<i>Computational approaches to statistical genetics</i> (anglais) - Kristel VAN STEEN - [35h Proj.] <b>Prérequis :</b> GBIO0002-1 - Genetics and bioinformatics	Q2	25	15	[+]	<b>5</b>
GBIO0031-1	<i>Learning from genomic data</i> (anglais) - Kristel VAN STEEN - [150h Proj.] <b>Prérequis :</b> GBIO0002-1 - Genetics and bioinformatics	Q2	-	-	[+]	<b>5</b>
INFO9012-1	<i>Parallel Programming</i> (anglais) - Pascal FONTAINE	Q2	25	25	-	<b>5</b>
INFO9015-1	<i>Logic for Computer Science</i> (anglais) - Pascal FONTAINE	Q1	24	20	-	<b>5</b>
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]	<b>5</b>
MQGE9007-1	<i>Advanced Modeling Techniques in Optimization</i> (anglais) - Quentin LOUVEAUX, N... <b>Corequis :</b> MATH0461-2 - Introduction to numerical optimization	Q1	30	-	-	<b>5</b>

**Internships and projects (maximum 15 credits)**

ASTG9005-1	<i>Research Internship</i> (anglais) - Benoît DONNET - [300h Proj.] <b>Prérequis :</b> PROJ0010-1 - Software project engineering and management	TA	-	-	[+]	<b>10</b>
ASTG0021-1	<i>Technical company internship</i> (anglais) - Laurent MATHY - [300h Proj.] <b>Prérequis :</b> PROJ0010-1 - Software project engineering and management  <i>Remarque :</i> the two company internships are mutually exclusive	TA	-	-	[+]	<b>10</b>
PROJ0011-1	<i>Personal student project</i> (anglais) - Bernard BOIGELOT, COLLÉGIALITÉ - [150h Proj.]	TA	-	-	[+]	<b>5</b>

**Optional courses within the focus**

Choose 15 credits in the following list :

INFO0064-2	<i>Embedded systems</i> (anglais) - Bernard BOIGELOT	Q1	25	20	-	<b>3</b>
INFO2055-1	<i>Embedded systems project</i> (anglais) - Bernard BOIGELOT - [60h Proj.] <b>Corequis :</b> INFO0064-2 - Embedded systems	Q2	-	-	[+]	<b>2</b>
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	<b>5</b>
INFO0056-1	<i>Securing Networks</i> (anglais) - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	<b>5</b>

INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Topics in Distributed Systems</i> (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Laurent MATHY - [35h Proj.] (années impaires)	Q2	30	-	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) <b>Corequis :</b> INFO0010-4 - Introduction to computer networking INFO0085-1 - Compilers INFO0940-1 - Operating systems	Q2	30	-	[+]	5
INFO8011-1	<i>Network infrastructures</i> (anglais) - Benoît DONNET, Laurent MATHY - [8h Labo., 30h Proj.] <b>Corequis :</b> INFO0010-4 - Introduction to computer networking	Q1	30	-	[+]	5
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires) <b>Corequis :</b> INFO0045-3 - Introduction to computer security	Q2	20	-	[+]	5
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]	5
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	30	-	5

#### Bloc d'aménagement du programme de l'année

### Crédits supplémentaires Master en sciences informatiques (destinés aux bacheliers Hautes Ecoles en sciences informatiques) (120 ECTS)

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

MATH0006-3	<i>Introduction to numerical analysis</i> (anglais) - Quentin LOUVEAUX	Q1	20	20	-	5
INFO0902-1	<i>Structures des données et algorithmes</i> - Pierre GEURTS - [40h Proj.]	Q2	26	20	[+]	5
INFO9012-1	<i>Parallel Programming</i> (anglais) - Pascal FONTAINE	Q2	25	25	-	5
INFO0010-4	<i>Introduction to computer networking</i> (anglais) - [12h Labo., 40h Proj.]	Q1	32	2	[+]	5
INFO0012-2	<i>Computation structures</i> (anglais) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	Q1	26	26	[+]	5
INFO0940-1	<i>Operating systems</i> (anglais) - Laurent MATHY - [30h Proj.]	Q2	30	6	[+]	5
INFO0062-1	<i>Object-oriented programming</i> (anglais) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	5
INFO0054-1	<i>Programmation fonctionnelle</i> - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	5
MATH2019-1	<i>Mathématiques pour l'informatique 1</i> - Emilie CHARLIER	Q1	26	26	-	5
INFO0027-3	<i>Programming techniques, Software patterns</i> (anglais) - Laurent MATHY - [30h Proj.]	Q2	10	10	[+]	2
MATH0495-1	<i>Eléments du calcul des probabilités</i> - Partim 1 : Outils d'analyse pour les probabilités - Laurent LOOSVELDT - Partim 2 : Théorie des probabilités - Laurent LOOSVELDT	Q1	6	6	-	5
INFO8006-1	<i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	5

[...] Students who pass the entrance test may replace LANG6011-1 with the advanced course LANG0988-1  
"Advanced for ICT studies"

**Test d'entrée**

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