

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

INFO0085-1	<i>Compilers</i> (anglais) - - Suppl : Julien BRUSTEN - [75h Proj.] Corequis : INFO0016-1 - Introduction to the theory of computation INFO2050-1 - Programmation avancée INFO0012-2 - Computation structures INFO0940-1 - Operating systems	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) - Pierre WOLPER	Q1	26	26	-	5
ELEN0060-2	<i>Information and coding theory</i> (anglais) - Louis WEHENKEL - [30h Proj.]	Q2	30	15	[+]	5
PROJ0010-1	<i>Software project engineering and management</i> (anglais) - JeanLouis BINOT, Benoît DONNET, Guy LEDUC, Laurent MATHY - [290h Proj.] Prérequis : INFO0062-1 - Object-oriented programming Corequis : INFO0010-4 - Introduction to computer networking	TA	20	-	[+]	10

Optional courses

Choose one focus among the three below :

Professional focus on "Computer systems and networks"

For students who have begun this focus before 2018-2019

Professional focus on "Computer systems security"

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

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.] Corequis : INFO0010-4 - Introduction to computer networking	Q2	30	-	[+]	5
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [8h Labo., 30h Proj.]	Q1	30	10	[+]	5

Choose 5 credits in the following list :

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.] Corequis : 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) - Guy LEDUC - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5

(années paires)

Corequis :

INFO0045-3 - Introduction to computer security

ELEN0002-2	<i>Introduction to audio and video techniques</i> (anglais) - JeanJacques EMBRECHTS - [8h Labo.]	Q1	30	22	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAIN - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Large-scale data systems</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	10	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires)	Q2	30	-	[+]	5
	Prérequis : INFO0940-1 - Operating systems					
INFO8011-1	(pas organisé en 2018-2019) <i>Network infrastructures</i> - Benoît DONNET, Guy LEDUC, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires)	Q2	30	-	[+]	5
	Corequis : INFO0010-4 - Introduction to computer networking					
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires)	Q1	30	-	[+]	5
	Prérequis : INFO0045-3 - Introduction to computer security					

Professional focus on "Intelligent Systems"

Students choosing this focus shall select, in addition to 5 credits of compulsory courses, 60 credits of elective courses inside or outside the focus. However, for his/her whole master program (block 1 and block 2), a total of 25 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

INFO8010-1	<i>Deep learning</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q2	30	5	[+]	5
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Choose 10 credits in the following list :

ELEN0016-2	<i>Computer vision</i> (anglais) - Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5
INFO0051-1	<i>Logic</i> (anglais) - Pascal GRIBOMONT - [10h Proj.]	Q1	25	25	[+]	5
INFO0948-2	<i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.]	Q2	30	4	[+]	5
	Corequis : ELEN0016-2 - Computer vision					
INFO0049-1	<i>Knowledge representation</i> (anglais) - Pascal GRIBOMONT - [50h Proj.]	Q2	28	24	[+]	5
	Corequis : INFO0051-1 - Logic					
INFO2049-1	<i>Web and Text Analytics</i> (anglais) - Ashwin ITTOO	Q1	30	-	-	5
GBIO0002-1	<i>Genetics and bioinformatics</i> (anglais) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	Q1	30	15	[+]	5
DROI8031-2	<i>Introduction to the law of robots, Law of artificial intelligence, robots and data-driven Algorithmic Applications</i> (anglais) - Nicolas PETIT	Q1	20	-	-	5
INFO8003-1	<i>Optimal decision making for complex problems</i> (anglais) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	5
INFO8004-1	<i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [45h Proj.]	Q2	30	5	[+]	5

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INFO8005-1	<i>Semantic Data</i> (anglais) - JeanLouis BINOT - [45h Proj.]	Q2	25	10	[+]	5
INFO0050-1	<i>Constraint programming projects</i> (anglais) - Pascal GRIBOMONT - [80h Proj.]	TA	15	10	[+]	5

Professional focus on "Management"

Students choosing this focus shall select, in addition to 27 credits of compulsory courses, 38 credits of elective courses inside or outside the focus. One of the 3 language courses belonging to the focus must necessarily be chosen as an option in either block 1 or block 2, for 3 credits. 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.

Registration to this focus only with a file (contact: C. Puit)

Compulsory courses

FINA0001-1	<i>Analyse des états financiers et financement de l'entreprise</i> - Jacques BERWART	Q2	45	-	-	5
ECON2259-1	<i>Microéconomie et économie industrielle</i> - Axel GAUTIER, Bernard THIRY	Q2	40	15	-	5
LOGI0010-1	<i>Supply Chain Management</i> (anglais) - Yasemin ARDA	Q2	45	-	-	5

Choose 15 credits in the lists below :

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").

MATH0500-1	<i>Introduction à l'algorithmique numérique</i> - Quentin LOUVEAUX - [6h Labo., 45h Proj.]	Q1	24	14	[+]	5
INFO2050-1	<i>Programmation avancée</i> - Pierre GEURTS - [40h Proj.]	Q1	25	20	[+]	5
INFO0010-4	<i>Introduction to computer networking</i> (anglais) - Partim A - Guy LEDUC - [8h Labo., 40h Proj.] - Partim B - Guy LEDUC - [4h Labo.]	Q2	30	2	[+]	5
			5	-	[+]	
INFO0012-2	<i>Computation structures</i> (anglais) - Pierre WOLPER - [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	10	[+]	5

[...] With the agreement of the jury, choose 5 credits in any course programme of the University :

Computer systems security

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5
INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [8h Labo., 30h Proj.]	Q1	30	10	[+]	5
INFO0056-1	<i>Securing Networks</i> (anglais) - Guy LEDUC - [12h Labo., 30h Proj.] (années paires) Corequis : INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	5
ELEN0002-2	<i>Introduction to audio and video techniques</i> (anglais) - JeanJacques EMBRECHTS - [8h Labo.]	Q1	30	22	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Large-scale data systems</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	10	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h	Q2	30	-	[+]	5

	Labo., 30h Proj.] (années paires) Prérequis : INFO0940-1 - Operating systems							
INFO8011-1	(pas organisé en 2018-2019) <i>Network infrastructures</i> - Benoît DONNET, Guy LEDUC, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires) Corequis : INFO0010-4 - Introduction to computer networking	Q2	30	-	[+]	5		
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires) Prérequis : INFO0045-3 - Introduction to computer security	Q1	30	-	[+]	5		
Intelligent Systems								
INFO8010-1	<i>Deep learning</i> (anglais) - Gilles LOUPPE - [45h Proj.] Corequis : ELEN0062-1 - Introduction to machine learning	Q2	30	5	[+]	5		
ELEN0016-2	<i>Computer vision</i> (anglais) - Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5		
INFO0948-2	<i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.] Corequis : ELEN0062-1 - Introduction to machine learning ELEN0016-2 - Computer vision	Q2	30	4	[+]	5		
INFO0051-1	<i>Logic</i> (anglais) - Pascal GRIBOMONT - [10h Proj.]	Q1	25	25	[+]	5		
INFO0049-1	<i>Knowledge representation</i> (anglais) - Pascal GRIBOMONT - [50h Proj.] Corequis : INFO0051-1 - Logic	Q2	28	24	[+]	5		
INFO2049-1	<i>Web and Text Analytics</i> (anglais) - Ashwin ITTOO Corequis : 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 - [45h Proj.]	Q2	30	5	[+]	5		
INFO8005-1	<i>Semantic Data</i> (anglais) - JeanLouis BINOT - [45h Proj.]	Q2	25	10	[+]	5		
INFO0050-1	<i>Constraint programming projects</i> (anglais) - Pascal GRIBOMONT - [80h Proj.]	TA	15	10	[+]	5		
Other optional courses								
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.] Corequis : 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		
INFO0060-1	<i>Concurrent system verification and temporal logic</i> (anglais) - Bernard BOIGELOT, Pascal GRIBOMONT, Pierre WOLPER - [20h Proj.] Prérequis : INFO0016-1 - Introduction to the theory of computation INFO0051-1 - Logic	Q2	30	10	[+]	5		
MECA0524-1	<i>CAD & Geometric Algorithms</i> - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	5		
ELEN0019-2	<i>Audio signal processing : principles and experiments</i> (anglais) - JeanJacques EMBRECHTS - [24h Labo., 30h Proj.]	Q2	5	-	[+]	5		
GBIO0009-1	<i>Topics in bioinformatics</i> (anglais) - Kristel VAN STEEN - [35h Proj.]	Q1	25	15	[+]	5		

Prérequis :

GBIO0002-1 - Genetics and bioinformatics

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.]	Q1	30	20	[+]	5
Corequis :						
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
Prérequis :						
GBIO0002-1 - Genetics and bioinformatics						
GBIO0031-1	<i>Learning from genomic data</i> (anglais) - Kristel VAN STEEN - [150h Proj.]	Q2	-	-	[+]	5
Prérequis :						
GBIO0002-1 - Genetics and bioinformatics						
INGE0012-1	<i>Scientific research in engineering and its impact on innovation</i> (anglais) - Rodolphe SEPULCHRE	Q2	26	26	-	5

Bloc 2

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

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

Choose one focus among the three below :

Professional focus on "Computer systems security"

Choose 15 credits in the following list :

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
Corequis :						
INFO0064-2 - Embedded systems						
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) - Guy LEDUC - [12h Labo., 30h Proj.] (années paires)	Q2	30	-	[+]	5
Corequis :						
INFO0045-3 - Introduction to computer security						
ELEN0002-2	<i>Introduction to audio and video techniques</i> (anglais) - JeanJacques EMBRECHTS - [8h Labo.]	Q1	30	22	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAIN - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Large-scale data systems</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	10	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires)	Q2	30	-	[+]	5
Prérequis :						
INFO0940-1 - Operating systems						
INFO8011-1	(pas organisé en 2018-2019) <i>Network infrastructures</i> - Benoît DONNET, Guy LEDUC, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires)	Q2	30	-	[+]	5

Corequis :

INFO0010-4 - Introduction to computer networking

INFO8013-1 *Advanced Computer Security* (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires) Q1 30 - [+] 5

Prérequis :

INFO0045-3 - Introduction to computer security

Professional focus on "Intelligent Systems"

Choose 15 credits in the following list :

ELEN0016-2 *Computer vision* (anglais) - Marc VAN DROOGENBROECK - [50h Proj.] Q1 30 10 [+] 5

INFO0051-1 *Logic* (anglais) - Pascal GRIBOMONT - [10h Proj.] Q1 25 25 [+] 5

INFO0948-2 *Introduction to intelligent robotics* (anglais) - Pierre SACRÉ - [80h Proj.] Q2 30 4 [+] 5

Corequis :

ELEN0016-2 - Computer vision

INFO0049-1 *Knowledge representation* (anglais) - Pascal GRIBOMONT - [50h Proj.] Q2 28 24 [+] 5

Corequis :

INFO0051-1 - Logic

INFO2049-1 *Web and Text Analytics* (anglais) - Ashwin ITTOO Q1 30 - - 5

GBIO0002-1 *Genetics and bioinformatics* (anglais) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.] Q1 30 15 [+] 5

DROI8031-2 *Introduction to the law of robots, Law of artificial intelligence, robots and data-driven Algorithmic Applications* (anglais) - Nicolas PETIT Q1 20 - - 5

INFO8003-1 *Optimal decision making for complex problems* (anglais) - Damien ERNST - [45h Proj.] Q2 25 10 [+] 5

INFO8004-1 *Advanced Machine learning* (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [45h Proj.] Q2 30 5 [+] 5

INFO8005-1 *Semantic Data* (anglais) - JeanLouis BINOT - [45h Proj.] Q2 25 10 [+] 5

INFO0050-1 *Constraint programming projects* (anglais) - Pascal GRIBOMONT - [80h Proj.] TA 15 10 [+] 5

Professional focus on "Management"

Compulsory courses

ERAS0011-1 *Business Simulation* (anglais) - Anne CHANTEUX - [50h TD] Q1 - - [+] 2

GRHO0001-4 *Gestion stratégique des ressources humaines* - François PICHULT Q1 45 - - 5

DROI0174-2 *Droit de l'entreprise* - Frédéric DAERDEN, Laurent STAS DE RICHELLE Q2 45 - - 5

Choose one of the three following courses :

LANG1936-1 *Néerlandais élémentaire 1* - Stéphane GHIJSEN, Catherine PEETERS TA 30 - - 3

LANG1933-1 *Allemand élémentaire 1* - Marie MAWHIN Q2 30 - - 3

LANG1934-1 *Espagnol élémentaire 1* - Alexis ALVAREZ BARBOSA TA 30 - - 3

Choose 20 credits in the lists below :

[...] With the agreement of the jury, choose 5 credits in any course programme of the University :

Computer systems security

INFO0031-1 *Network Engineering* (anglais) - Benoît DONNET, Guy LEDUC - [12h Labo., 30h Proj.] Q2 30 - [+] 5

INFO0045-3	<i>Introduction to computer security</i> (anglais) - Benoît DONNET - [8h Labo., 30h Proj.]	Q1	30	10	[+]	5
INFO0056-1	<i>Securing Networks</i> (anglais) - Guy LEDUC - [12h Labo., 30h Proj.] (années paires) Corequis : INFO0045-3 - Introduction to computer security	Q2	30	-	[+]	5
ELEN0002-2	<i>Introduction to audio and video techniques</i> (anglais) - JeanJacques EMBRECHTS - [8h Labo.]	Q1	30	22	[+]	5
INFO0939-1	<i>High performance scientific computing</i> (anglais) - Christophe GEUZAINÉ - [20h Proj.]	Q1	30	15	[+]	5
INFO8002-1	<i>Large-scale data systems</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	10	[+]	5
INFO8012-1	<i>Digital Forensics</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) Prérequis : INFO0940-1 - Operating systems	Q2	30	-	[+]	5
INFO8011-1	(pas organisé en 2018-2019) <i>Network infrastructures</i> - Benoît DONNET, Guy LEDUC, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires) Corequis : INFO0010-4 - Introduction to computer networking	Q2	30	-	[+]	5
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années impaires) Prérequis : INFO0045-3 - Introduction to computer security	Q1	30	-	[+]	5

Intelligent Systems

INFO8010-1	<i>Deep learning</i> (anglais) - Gilles LOUPPE - [45h Proj.] Corequis : ELEN0062-1 - Introduction to machine learning	Q2	30	5	[+]	5
ELEN0016-2	<i>Computer vision</i> (anglais) - Marc VAN DROOGENBROECK - [50h Proj.]	Q1	30	10	[+]	5
INFO0948-2	<i>Introduction to intelligent robotics</i> (anglais) - Pierre SACRÉ - [80h Proj.] Corequis : ELEN0062-1 - Introduction to machine learning ELEN0016-2 - Computer vision	Q2	30	4	[+]	5
INFO0051-1	<i>Logic</i> (anglais) - Pascal GRIBOMONT - [10h Proj.]	Q1	25	25	[+]	5
INFO0049-1	<i>Knowledge representation</i> (anglais) - Pascal GRIBOMONT - [50h Proj.] Corequis : INFO0051-1 - Logic	Q2	28	24	[+]	5
INFO2049-1	<i>Web and Text Analytics</i> (anglais) - Ashwin ITTOO Corequis : 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 - [45h Proj.]	Q2	30	5	[+]	5
INFO8005-1	<i>Semantic Data</i> (anglais) - JeanLouis BINOT - [45h Proj.]	Q2	25	10	[+]	5
INFO0050-1	<i>Constraint programming projects</i> (anglais) - Pascal GRIBOMONT - [80h Proj.]	TA	15	10	[+]	5

Other optional courses

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.] Corequis :	Q2	-	-	[+]	2

	INFO0064-2 - Embedded systems						
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]	5	
INFO0060-1	<i>Concurrent system verification and temporal logic</i> (anglais) - Bernard BOIGELOT, Pascal GRIBOMONT, Pierre WOLPER - [20h Proj.] Prérequis : INFO0016-1 - Introduction to the theory of computation INFO0051-1 - Logic	Q2	30	10	[+]	5	
MECA0524-1	<i>CAD & Geometric Algorithms</i> - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	5	
ELEN0019-2	<i>Audio signal processing : principles and experiments</i> (anglais) - JeanJacques EMBRECHTS - [24h Labo., 30h Proj.]	Q2	5	-	[+]	5	
GBIO0009-1	<i>Topics in bioinformatics</i> (anglais) - Kristel VAN STEEN - [35h Proj.] Prérequis : GBIO0002-1 - Genetics and bioinformatics	Q1	25	15	[+]	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.] Corequis : MATH0500-1 - Introduction à l'algorithmique numérique	Q1	30	20	[+]	5	
GBIO0030-1	<i>Computational approaches to statistical genetics</i> (anglais) - Kristel VAN STEEN - [35h Proj.] Prérequis : GBIO0002-1 - Genetics and bioinformatics	Q2	25	15	[+]	5	
GBIO0031-1	<i>Learning from genomic data</i> (anglais) - Kristel VAN STEEN - [150h Proj.] Prérequis : GBIO0002-1 - Genetics and bioinformatics	Q2	-	-	[+]	5	
INGE0012-1	<i>Scientific research in engineering and its impact on innovation</i> (anglais) - Rodolphe SEPULCHRE	Q2	26	26	-	5	
Internships and projects (maximum 15 credits)							
ASTG9005-1	<i>Research Internship</i> (anglais) - Benoît DONNET - [300h Proj.]	TA	-	-	[+]	10	
ASTG0021-1	<i>Technical company internship</i> (anglais) - Laurent MATHY - [300h Proj.] <i>Remarque :</i> the two company internships are mutually exclusive	TA	-	-	[+]	10	
PROJ0011-1	<i>Personal student project</i> (anglais) - Bernard BOIGELOT, COLLÉGIALITÉ - [150h Proj.]	TA	-	-	[+]	5	

Bloc d'aménagement du programme de l'année

Crédits supplémentaires Master en sciences informatiques (pour les étudiants qui n'ont pas obtenu un Bachelier en sciences informatiques)

Students that are admitted to the master of science in Computer Science without having obtained a degree of bachelor in Computer Science must add to their programme the following list of courses, to be taken in the first year of the master.

Compulsory courses

MATH0499-1	<i>Théorie des graphes</i> - Michel RIGO	Q1	25	20	-	4	
INFO0062-1	<i>Object-oriented programming</i> (anglais) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	5	
INFO0054-1	<i>Programmation fonctionnelle</i> - Pascal GRIBOMONT - [15h Proj.]	Q2	28	24	[+]	5	
MATH2019-1	<i>Mathématiques pour l'informatique 1</i> - Emilie CHARLIER, N...	Q2	26	26	-	5	

INFO0058-1	<i>Introduction à la programmation réursive</i> - Pascal GRIBOMONT	Q1	15	15	-	3
INFO0027-2	<i>Programming techniques</i> (anglais) - Laurent MATHY - [70h Proj.]	Q2	24	24	[+]	5
LANG6011-1	<i>Remedial English for Computer Science</i> (anglais) - Adnan VESSEUR	Q1	3	27	-	3