

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.

To complete their curriculum, students must earn or validate the 65 credits of the compulsory courses (including the master thesis), choose 30 credits from the professional focus and take 25 credits of optional courses.

Ideally, students enrolling in the master program should have acquired the skills and knowledge corresponding to the 40 credits in "Computer science" offered as part of the bachelor program in engineering.

Compulsory courses from the core curriculum

INFO0085-1	<i>Compilers</i> (anglais) - Pascal FONTAINE - [75h Proj.] Corequis : INFO0940-1 - Operating systems INFO0012-2 - Computation structures 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
INFO0940-1	<i>Operating systems</i> (anglais) - Laurent MATHY - [30h Proj.] Corequis : INFO9012-1 - Parallel Programming INFO0012-2 - Computation structures	Q2	30	6	[+]	5
ELEN0060-2	<i>Information and coding theory</i> (anglais) - Louis WEHENKEL - [30h Proj.]	Q2	30	15	[+]	5
GEST3162-1	<i>Principles of management</i> (anglais) - Michaël PARMENTIER, Willem STANDAERT - [25h Proj.]	Q1	30	-	[+]	5
PROJ0010-1	<i>Software project engineering and management</i> (anglais) - Benoît DONNET, Bernard HAUZEUR, Laurent MATHY - [280h Proj.] Prérequis : INFO0062-1 - Object-oriented programming Corequis : INFO0010-4 - Introduction to computer networking INFO0902-1 - Structures des données et algorithmes	TA	20	-	[+]	10

Optional courses from the core curriculum

Choose remaining credits in the lists below :

Optional courses outside the focus

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 of science in engineering, or unless the corresponding knowledge and skills have been acquired previously.

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
INFO0062-1	<i>Object-oriented programming</i> (anglais) - Bernard BOIGELOT - [20h Proj.]	Q2	25	20	[+]	5
INFO9012-1	<i>Parallel Programming</i> (anglais) - Pascal FONTAINE	Q2	25	25	-	5

Computer systems security

INFO0031-1	<i>Network Engineering</i> (anglais) - Benoît DONNET - [12h Labo., 30h Proj.]	Q2	30	-	[+]	5
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INFO0045-3 *Introduction to computer security* (anglais) - Benoît DONNET - [10h Labo., 30h Proj.] Q1 30 6 [+] 5
Corequis :
 INFO0010-4 - Introduction to computer networking
 INFO0012-2 - Computation structures
 INFO0902-1 - Structures des données et algorithmes

Intelligent Systems

INFO8010-1 *Deep learning* (anglais) - Gilles LOUPPE - [60h Proj.] Q2 30 - [+] 5
Corequis :
 ELEN0062-1 - Introduction to machine learning

INFO9015-1 *Logic for Computer Science* (anglais) - Pascal FONTAINE Q1 24 20 - 5

Other optional courses

INFO9015-1 *Logic for Computer Science* (anglais) - Pascal FONTAINE Q1 24 20 - 5

INFO0060-1 *Introduction to computer systems verification* (anglais) - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.] Q2 20 20 [+] 5
Corequis :
 INFO0016-1 - Introduction to the theory of computation
 INFO9015-1 - Logic for Computer Science

INFO0027-2 *Programming techniques* (anglais) Q2 5
 - *Algorithmics* - Laurent MATHY - [40h Proj.] 14 14 [+]
 - *Software patterns* - Laurent MATHY - [30h Proj.] 10 10 [+]

MATH0461-2 *Introduction to numerical optimization* (anglais) - Quentin LOUVEAUX - [25h Proj.] Q1 30 20 [+] 5

MATH0462-1 *Discrete optimization* (anglais) - Quentin LOUVEAUX - [25h Proj.] Q2 30 20 [+] 5

GBIO0030-1 *Computational approaches to statistical genetics* (anglais) - Kristel VAN STEEN - [35h Proj.] Q2 25 15 [+] 5
Prérequis :
 GBIO0002-1 - Genetics and bioinformatics

MECA0524-1 *CAD & Geometric Algorithms* - Eric BÉCHET - [60h Proj.] Q1 20 20 [+] 5

INFO0004-2 *Object-oriented programming projects* (anglais) - Laurent MATHY - [90h Proj.] Q2 20 - [+] 5

GBIO0031-1 *Learning from genomic data* (anglais) - Kristel VAN STEEN - [150h Proj.] Q2 - - [+] 5

INFO0054-1 *Programmation fonctionnelle* - Christophe DEBRUYNE - [20h Proj.] Q1 24 24 [+] 5

MQGE9007-1 *Advanced Modeling Techniques in Optimization* (anglais) - Quentin LOUVEAUX, N... Q1 30 - - 5
Corequis :
 MATH0461-2 - Introduction to numerical optimization

[...] Choose a maximum of 5 credits from the following list within block 1 :

INFO0056-1 *Securing Networks* (anglais) - [12h Labo., 30h Proj.] (années paires) Q2 30 - [+] 5
Corequis :
 INFO0010-4 - Introduction to computer networking
 INFO0045-3 - Introduction to computer security

INFO0939-1 *High performance scientific computing* (anglais) - Christophe GEUZAINÉ - [20h Proj.] Q1 30 15 [+] 5

INFO8002-1 *Topics in Distributed Systems* (anglais) - Bernard BOIGELOT, Christophe DEBRUYNE, Pascal FONTAINE, Laurent MATHY - [35h Proj.] (années impaires) Q2 30 - [+] 5

INFO8012-1 *Digital Forensics* (anglais) - Benoît DONNET, Laurent MATHY - [12h Labo., 30h Proj.] (années paires) Q2 30 - [+] 5
Corequis :
 INFO0010-4 - Introduction to computer networking

	INFO0085-1 - Compilers							
	INFO0940-1 - Operating systems							
INFO8011-1	<i>Network infrastructures</i> (anglais) - Benoît DONNET, Laurent MATHY - [8h Labo., 30h Proj.]	Q1	30	-	[+]			5
	Corequis : INFO0010-4 - Introduction to computer networking							
INFO8013-1	<i>Advanced Computer Security</i> (anglais) - Benoît DONNET, Laurent MATHY - [20h Labo., 30h Proj.] (années impaires)	Q2	20	-	[+]			5
	Corequis : INFO0045-3 - Introduction to computer security							
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	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
INFO2049-1	<i>Artificial Intelligence Methods for Natural Language Processing</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
INFO8003-1	<i>Reinforcement learning</i> (anglais) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]			5
INFO8004-1	<i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.]	Q2	25	-	[+]			5
	Corequis : INFO8010-1 - Deep learning ELEN0062-1 - Introduction to machine learning							
INFO8006-1	<i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]			5
INFO9014-1	<i>Knowledge representation and reasoning</i> (anglais) - Christophe DEBRUYNE - [45h Proj.]	Q2	24	20	[+]			5
	Corequis : INFO9015-1 - Logic for Computer Science							
INFO9023-1	<i>Machine Learning Systems Design</i> (anglais) - Thomas VRANCKEN - [17h Labo., 18h Proj.]	Q2	17	-	[+]			5
ELEN0449-1	<i>Computer Vision understanding</i> (anglais) - Anthony CIOPPA - [50h Proj.]	Q2	24	10	[+]			5
INFO9030-1	<i>Explainable Artificial Intelligence</i> (anglais) - Vân Anh HUYNH THU - [50h Proj.]	Q2	24	-	[+]			5
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]			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
	Corequis : INFO0064-2 - Embedded systems							
INFO2051-1	<i>Object-oriented programming on mobile devices</i> (anglais) - Laurent MATHY - [90h Proj.]	Q1	15	10	[+]			5

Internships and projects (maximum 15 credits)

PROJ0011-1	<i>Personal student project</i> (anglais) - Bernard BOIGELOT, COLLÉGIALITÉ - [150h Proj.]	TA	-	-	[+]			5
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Registration to this focus only with a file (contact: C. Puit)

Compulsory courses within the focus

Students who intend to take the "Financial Engineering" focus in the Business Engineering Master, must take "GEST0832-4"

Marchés Financiers", as the 5 credit free option course in this programme, prior to joining the Business Engineering Master.

FINA0001-1	<i>Analyse des états financiers et financement de l'entreprise</i> - Wouter TORSIN	Q2	45	-	-	5
FINA0017-1	<i>Comptabilité générale (hd)</i> - Anne BILS, Vincent COMPAGNIE	Q1	45	15	-	5
LOGI0010-1	<i>Supply Chain Management (anglais)</i> - Yasemin ARDA	Q2	45	-	-	5

Bloc 2

Compulsory courses from the core curriculum

ATFE0015-1	<i>Master thesis (anglais)</i> - COLLÉGIALITÉ, Laurent MATHY - [750h Proj.]	TA	-	-	[+]	25
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Optional courses from the core curriculum

Choose remaining credits in the lists below :

Optional courses outside the focus

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 of science in engineering, or unless the corresponding knowledge and skills have been acquired previously.

Computer systems security

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

Corequis :

INFO0010-4 - Introduction to computer networking
 INFO0012-2 - Computation structures
 INFO0902-1 - Structures des données et algorithmes

Intelligent Systems

INFO8010-1	<i>Deep learning (anglais)</i> - Gilles LOUPPE - [60h Proj.]	Q2	30	-	[+]	5
Corequis : ELEN0062-1 - Introduction to machine learning						
INFO9015-1	<i>Logic for Computer Science (anglais)</i> - Pascal FONTAINE	Q1	24	20	-	5

Other optional courses

INFO9015-1	<i>Logic for Computer Science (anglais)</i> - Pascal FONTAINE	Q1	24	20	-	5
INFO0060-1	<i>Introduction to computer systems verification (anglais)</i> - Bernard BOIGELOT, Pascal FONTAINE - [20h Proj.]	Q2	20	20	[+]	5
Corequis : INFO0016-1 - Introduction to the theory of computation INFO9015-1 - Logic for Computer Science						
INFO0027-2	<i>Programming techniques (anglais)</i> - <i>Algorithmics</i> - Laurent MATHY - [40h Proj.] - <i>Software patterns</i> - Laurent MATHY - [30h Proj.]	Q2	14	14	[+]	5
MATH0461-2	<i>Introduction to numerical optimization (anglais)</i> - Quentin LOUVEAUX - [25h Proj.]	Q1	30	20	[+]	5
MATH0462-1	<i>Discrete optimization (anglais)</i> - Quentin LOUVEAUX - [25h Proj.]	Q2	30	20	[+]	5
GBIO0030-1	<i>Computational approaches to statistical genetics (anglais)</i> - Kristel VAN STEEN - [35h Proj.]	Q2	25	15	[+]	5
Prérequis : GBIO0002-1 - Genetics and bioinformatics						
MECA0524-1	<i>CAD & Geometric Algorithms</i> - Eric BÉCHET - [60h Proj.]	Q1	20	20	[+]	5
INFO0004-2	<i>Object-oriented programming projects (anglais)</i> - Laurent MATHY - [90h	Q2	20	-	[+]	5

	Proj.]								
GBIO0031-1	<i>Learning from genomic data</i> (anglais) - Kristel VAN STEEN - [150h Proj.]	Q2	-	-	[+]	5			
INFO0054-1	<i>Programmation fonctionnelle</i> - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	5			
MQGE9007-1	<i>Advanced Modeling Techniques in Optimization</i> (anglais) - Quentin LOUVEAUX, N... Corequis : MATH0461-2 - Introduction to numerical optimization	Q1	30	-	-	5			
[...]	Choose a maximum of 20 credits from the following list within block 1								
INFO0056-1	<i>Securing Networks</i> (anglais) - [12h Labo., 30h Proj.] (années paires) Corequis : 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 BOIGÉLOT, 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) Corequis : 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.] Corequis : 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) Corequis : INFO0045-3 - Introduction to computer security	Q2	20	-	[+]	5			
ELEN0450-1	<i>Multimedia Systems</i> (anglais) - Anthony CIOPPA	Q1	24	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			
INFO2049-1	<i>Artificial Intelligence Methods for Natural Language Processing</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			
INFO8003-1	<i>Reinforcement learning</i> (anglais) - Damien ERNST - [45h Proj.]	Q2	25	10	[+]	5			
INFO8004-1	<i>Advanced Machine learning</i> (anglais) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.] Corequis : INFO8010-1 - Deep learning ELEN0062-1 - Introduction to machine learning	Q2	25	-	[+]	5			
INFO8006-1	<i>Introduction to artificial intelligence</i> (anglais) - Gilles LOUPPE - [45h Proj.]	Q1	25	20	[+]	5			
INFO9014-1	<i>Knowledge representation and reasoning</i> (anglais) - Christophe DEBRUYNE - [45h Proj.] Corequis : 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.]	Q2	17	-	[+]	5
ELEN0449-1	<i>Computer Vision understanding</i> (anglais) - Anthony CIOPPA - [50h Proj.]	Q2	24	10	[+]	5
INFO9030-1	<i>Explainable Artificial Intelligence</i> (anglais) - Vân Anh HUYNH THU - [50h Proj.]	Q2	24	-	[+]	5
INFO9016-1	<i>Advanced Databases</i> (anglais) - Christophe DEBRUYNE - [20h Proj.]	Q1	24	20	[+]	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.] 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
[...]	With the agreement of the jury, choose 5 credits in any course programme of the University or from the UNIC course catalog.					

Internships and projects (maximum 15 credits)

ASTG9005-1	<i>Research Internship</i> (anglais) - Benoît DONNET - [300h Proj.] Prérequis : PROJ0010-1 - Software project engineering and management	TA	-	-	[+]	10
ASTG0021-1	<i>Technical company internship</i> (anglais) - Laurent MATHY - [300h Proj.] Prérequis : PROJ0010-1 - Software project engineering and management <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

Compulsory courses within the focus

GRHO0001-4	<i>Gestion stratégique des ressources humaines</i> - Grégory JEMINE	Q1	45	-	-	5
DROI2003-2	<i>Gestion juridique générale de l'entreprise</i> - <i>Droit des sociétés</i> - Wilfried NIESSEN, Laurent STAS DE RICHELLE - <i>Droit fiscal</i> - Isabelle RICHELLE GRAULICH - [5h Conf.]	Q2				5
			25	-	-	
			25	-	[+]	

Optional courses within the focus

Students choosing this focus shall select, in addition to 15 credits of compulsory courses, 5 credits of elective courses inside 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. The remaining credits can be taken outside the focus.

LANG1936-1	<i>Néerlandais élémentaire 1</i>	Q2	30	-	-	5
LANG1933-1	<i>Allemand élémentaire 1</i>	TA	30	-	-	5
LANG1934-1	<i>Espagnol élémentaire 1</i>	TA	30	-	-	5

Bloc d'aménagement du programme de l'année

Crédits supplémentaires Master en ingénieur civil en informatique (120 ECTS)

Compulsory courses

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

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
MATH0006-3	<i>Introduction to numerical analysis</i> (anglais) - Quentin LOUVEAUX	Q1	20	20	-	5
INFO0054-1	<i>Programmation fonctionnelle</i> - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	5
INFO0030-3	<i>Projet de programmation</i> - Benoît DONNET - [100h Proj.]	Q2	20	-	[+]	5
ELEN0040-1	<i>Digital electronics</i> (anglais) - JeanMichel REDOUTÉ	Q2	26	26	-	5
MECA0003-2	<i>Mécanique rationnelle</i> - Eric DELHEZ	Q1	20	30	-	5
LANG6011-1	<i>Remedial English for Computer Science</i> (anglais) - Adnan VESSEUR	Q2	3	27	-	3
DROI0101-1	<i>Contrats relatifs à l'informatique</i> - Benoît KOHL	Q2	30	-	-	4
GENV0002-1	<i>Energie et développement durable</i> - Pierre DEWALLEF, Damien ERNST, Motiar RAHAMAN, Sigrid REITER - [12h Proj.]	Q2	26	8	[+]	3
MATH0504-1	<i>Mathématiques appliquées</i> - Benjamin DEWALS, Christophe GEUZAINÉ	Q1	26	26	-	5

Crédits supplémentaires Master en ingénieur civil en informatique (120 ECTS)

Compulsory courses

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

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	-	3
MATH0006-3	<i>Introduction to numerical analysis</i> (anglais) - Quentin LOUVEAUX	Q1	20	20	-	4
INFO0054-1	<i>Programmation fonctionnelle</i> - Christophe DEBRUYNE - [20h Proj.]	Q1	24	24	[+]	5
INFO0030-3	<i>Projet de programmation</i> - Benoît DONNET - [100h Proj.]	Q2	20	-	[+]	5
ELEN0040-1	<i>Digital electronics</i> (anglais) - JeanMichel REDOUTÉ	Q2	26	26	-	5
MATH0013-1	<i>Algèbre</i> - Eric DELHEZ	Q1	26	26	-	5
MECA0003-2	<i>Mécanique rationnelle</i> - Eric DELHEZ	Q1	20	30	-	4
LANG6011-1	<i>Remedial English for Computer Science</i> (anglais) - Adnan VESSEUR	Q2	3	27	-	3
DROI0724-1	<i>Droit et activités de l'ingénieur</i> - Roman AYDOGDU, Christine BIQUET, Vanessa FRANSSEN, Fabienne KÉFER, Pascale LECOCQ, Bernard VANBRABANT, Philippe VINCENT	Q1	26	-	-	2
GENV0002-1	<i>Energie et développement durable</i> - Pierre DEWALLEF, Damien ERNST, Motiar RAHAMAN, Sigrid REITER - [12h Proj.]	Q2	26	8	[+]	3
MATH0504-1	<i>Mathématiques appliquées</i> - Benjamin DEWALS, Christophe GEUZAINÉ	Q1	26	26	-	5