

## Cycle view of the study programme

B1 Or Th Pr Au Cr

Course to be intended in order to obtain de Master's degree in computer science.

### Core curriculum compulsory courses (B1 : 40Cr)

INFO0016-1	<i>Introduction to the theory of computation</i> (english language) - Quentin LOUVEAUX	B1	Q1	26	26	-	5
ELEN0062-1	<i>Introduction to machine learning</i> (english language) - Pierre GEURTS, Louis WEHENKEL - [40h Proj.]	B1	Q1	30	5	[+]	5
INFO0940-1	<i>Operating systems</i> (english language) - Laurent MATHY - [30h Proj.]	B1	Q2	30	6	[+]	5
PROJ0010-1	<i>Software project engineering and management</i> (english language) - Benoît DONNET, Bernard HAUZEUR, Laurent MATHY - [280h Proj.]	B1	TA	20	-	[+]	10
PROJ0019-1	<i>End of studies project</i> (english language) - Laurent MATHY - [300h Proj.]	B1	TA	-	-	[+]	10
INFO0012-2	<i>Computation structures</i> (english language) - Pascal FONTAINE, Laurent MATHY - [40h Proj.]	B1	Q1	26	26	[+]	5

### Focus compulsory courses (B1 : 5Cr)

INFO8010-1	<i>Deep learning</i> (english language) - Gilles LOUPPE - [60h Proj.]	B1	Q2	30	-	[+]	5
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### Focus optional courses (B1 : 25Cr)

Choose 25 credits from: (B1 : 25Cr)

Basic course in IT

The following courses (INFO8006-, INFO0010-4) are prerequisites for certain compulsory classes in the Master's programme. They must be taken as a priority, unless they have already been passed as part of another programme, or if the corresponding knowledge and skills have been previously acquired.

INFO8006-1	<i>Introduction to artificial intelligence</i> (english language) - Gilles LOUPPE - [45h Proj.] <i>Notice</i> : Prerequisite for the ELEN0062-1 course	B1	Q1	25	20	[+]	5
INFO0010-4	<i>Introduction to computer networking</i> (english language) - [12h Labo., 40h Proj.] <i>Notice</i> : Prerequisite for the PROJ0010-1 course	B1	Q1	32	2	[+]	5
ELEN0016-2	<i>Computer vision</i> (english language) - Anthony CIOPPA, Adrien DELIÈGE, Marc VAN DROOGENBROECK - [50h Proj.]	B1	Q1	30	10	[+]	5
INFO0948-2	<i>Introduction to intelligent robotics</i> (english language) - Pierre SACRÉ - [80h Proj.]	-	Q2	30	4	[+]	5
INFO2049-1	<i>Artificial Intelligence Methods for Natural Language Processing</i> (english language) - Ashwin ITTOO	-	Q1	30	-	-	5
GBIO0002-1	<i>Genetics and bioinformatics</i> (english language) - Franck DEQUIEDT, Kristel VAN STEEN - [15h Proj.]	-	Q1	30	15	[+]	5
DROI1357-1	<i>European law, (big) data and artificial intelligence applications seminar</i> (english language) - Jérôme DE COOMAN, Ljupcho GROZDANOVSKI	-	Q1	24	-	-	5
INFO8003-1	<i>Reinforcement learning</i> (english language) - Damien ERNST - [45h Proj.]	-	Q2	25	10	[+]	5
INFO8004-1	<i>Advanced Machine learning</i> (english language) - Pierre GEURTS, Gilles LOUPPE, Louis WEHENKEL - [20h Proj.]	-	Q2	25	-	[+]	5
INFO9014-1	<i>Knowledge representation and reasoning</i> (english language) - Christophe DEBRUYNE - [45h Proj.]	-	Q2	24	20	[+]	5