

Programme structure

The student's master's program 60 in computer science will total a minimum of 60 credits distributed over an annual block comprising a common core (21 credits), a final thesis (15 credits) and units of elective course (24 credits).

This programme may vary depending on students' prior course of study. If during their previous studies, students have already taken a required class or completed an equivalent activity, they may substitute this course with an activity of their choice from the Master's degree programme (120) in computer science (provided they follow the programme guidelines). They will also verify that the minimum number of required credits for their diploma has been obtained.

Such programmes will be submitted to the appropriate programme commission for approval.

The majority of courses in this programme are offered in English. For non-Francophone students, alternative courses will be suggested by the programme commission as substitutes for required courses taught in French. This will be done on a case by case basis depending on the student's curriculum.

It is always possible for students to speak in French in class or during evaluations. Specifically, the graduation thesis/project may be written and defended in either English or French.

For students coming from bachelor's degrees in management information technology or computer science and systems from the Hautes Ecoles in FWB, the program also includes an additional module comprising 45 credits which must be taken as a priority during the first registration in the master's degree. Including this complementary module, the student's complete program should reach 105 credits spread over 2 annual blocks.



Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊙ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Courses for students coming from a short bachelor. These students will have to take at least 105 credits to obtain the master in computer science.

○ LINFO1114	Discrete Mathematics	Marco Saerens	(FR) [q1] [30h+15h] [5 Credits] 🌐
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○ Cours alternatifs Probabilités et statistiques

The student chooses a course from:

⊗ LBIR1212	Probabilities and statistics (I)	Patrick Bogaert	(FR) [q1] [30h+15h] [5 Credits] 🌐
⊗ LSINC1211	Probability and Statistics		(FR) [q2] [30h+30h] [5 Credits] 🌐

○ Cours alternatifs Intelligence artificielle

The student chooses a course from:

⊗ LINFO1361	Artificial intelligence	Eric Piette (compensates Yves Deville)	(FR) [q2] [30h+30h] [5 Credits] 🌐
⊗ LSINC1361	Artificial intelligence		(FR) [q2] [30h+30h] [5 Credits] △ 🌐

○ Cours alternatifs Systèmes informatiques

The student chooses a course from:

⊗ LINFO1252	Informatic Systems	Etienne Riviere	(FR) [q1] [30h+30h] [5 Credits] 🌐
⊗ LSINC1252	Informatic Systems	Etienne Riviere	(FR) [q1] [30h+30h] [5 Credits] △ 🌐

○ Cours alternatifs Réseaux informatiques

The student chooses a course from:

⊗ LINFO1341	Computer networks	Olivier Bonaventure	(FR) [q2] [30h+30h] [5 Credits] 🌐
⊗ LSINC1341	Computer networks		

o **Cours alternatifs Calculabilité, logique et complexité**

The student chooses a course from:

⌘ LINFO1123

Calculability, Logic and Complexity

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

Direct access

SINF2M1 - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or on this page are to be understood as those issued by an institution of the French, Flemish or German-speaking Community, or by the Royal Military Academy.

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.

SUMMARY

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- > [Access based on application](#)
- > [Admission and Enrolment Procedures for general registration](#)

Specific access requirements

This programme is taught in English with no prerequisite in French. See [selection criteria](#) of the personalized access. Un2 302.64801 96.90 ET q 0 G [] 0

University Bachelors

UCLouvain Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Computer Science (Louvain-la-Neuve)		Direct access	
Bachelor in Computer Science (Charleroi)		Direct access	
Bachelor in Economics and Management Bachelor in Mathematics Bachelor in Engineering : Architecture	Minor in Computer Sciences	Access with additional training	maximum 60 additional credits integra1 Tm [0 9.8439994440h02 0 95.0

BA en informatique de gestion - crédits supplémentaires entre 30 et 60

BA en informatique et systèmes, orientation informatique industrielle - crédits supplémentaires entre 30 et 60

BA en informatique et systèmes, orientation réseaux et télécommunications - crédits supplémentaires entre 30 et 60

BA en informatique et systèmes, orientation sécurité des systèmes - crédits supplémentaires entre 30 et 60

BA en informatique et systèmes, orientation technologie de l'informatique - crédits supplémentaires entre 30 et 60

BA en informatique, orientation développement d'applications - crédits supplémentaires entre 30 et 60

BA en informatique, orientation informatique industrielle - crédits supplémentaires entre 30 et 60

BA en informatique, orientation réseaux et télécommunications - crédits supplémentaires entre 30 et 60

BA en informatique, orientation sécurité des systèmes - crédits supplémentaires entre 30 et 60

BA en informatique, orientation technologies de l'informatique - crédits supplémentaires entre 30 et 60

Les enseignements supplémentaires éventuels peuvent être consultés dans le [module complémentaire](#).

Type court

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"			

Masters

Holders of a non-University 2nd cycle degree

Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

The first step of the admission procedure requires to submit an application online : <https://uclouvain.be/en/study/inscriptions/futurs-etudiants.html>.

[Selection criteria are summarized here](#) (contact : epl-admission@uclouvain.be).

Admission and Enrolment Procedures for general registration

Teaching method

Active learning and non-technical skills

You will play an active role in your training. The pedagogical approach is a well-balanced mix of lectures, exercises, and projects to be

Entity

Structure entity
Denomination
Faculty
Sector
Acronym
Postal address

SST/EPL/INFO
(INFO)
Louvain School of Engineering (EPL)
Sciences and Technology (SST)
INFO
Place Sainte Barbe 2 - bte L5.02.01
1348 Louvain-la-Neuve
Tel: +32 (0) 10 47 31 50 - Fax: +32 (0) 10 45 03 45

Academic supervisor: [Pierre Schaus](#)

Jury

- Président du Jury: [Claude Oestges](#)
- Secrétaire du Jury: [Cristel Pelsser](#)

Useful Contact(s)

- Secrétariat: [Vanessa Maons](#)
- Secrétariat facultaire: master-epl-sinf@uclouvain.be
- Study advisor: [Cécile Lombart](#)

