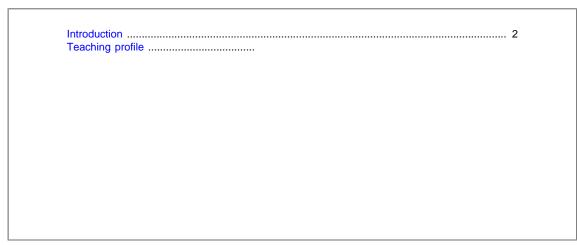


At Louvain-la-Neuve - 60 credits - 1 year - Day schedule - In English Dissertation/Graduation Project : YES - Internship : NO Activities in English: YES - Activities in other languages : optional Activities on other sites : NO Main study domain : Sciences Organized by: Louvain School of Engineering (EPL) Programme acronym: SINF2M1 - Francophone Certification Framework: 7

## **Table of contents**



# SINF2M1 - Introduction

# Introduction

### Introduction

The objective of this Master's degree programme is to train computer science professionals capable of understanding and analysing the complex needs of a company, of designing computing systems that meet those needs, of mastering the rapidly evolving technological tools in this area, of implementing solutions, of assuring quality products and procedures in a company.

### Your profile

#### You would like to

- Imagine, design, and implement computer science systems that will shape the future;
- continue your education beyond the Bachelor's degree with a major in computer sciences (or the equivalent);
- improve your theoretical knowledge and develop your technical expertise in fields like artificial intelligence, computer networks, information security, software engineering and programming systems;
- improve your interdisciplinary knowledge in areas such as foreign languages, resource management, teamwork, autonomy and ethics.

#### Your future job

We train

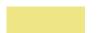
- professionals who will design computer systems that meet users' needs;
- innovators who can master a wide range of constantly evolving technologies;
- specialists capable of implementing software solutions with particular attention paid to product quality and its development process.

### Your programme

This Master's degree programme consists of

- a core curriculum aiming to provide the knowledge and skills necessary to model and design complex applications. Topics covered include artificial intelligence, computer networking, software engineering, compilers and data bases;
- general knowledge courses such as classes in management and human resources (as a comprehensive university, UCLouvain offers numerous general knowledge courses according to student interest);
- a graduation project that offers students the possibility to study a subject in-depth and thanks to its size, introduces students to the professional life of a computer scientist or researcher; the topic of this project is selected in consultation with the programme supervisors and possibly a company.

UCL - Université catholique de Louvain Study Programme 2024-2025 SINF2M1: Master [60] in Computer Science



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## • Cours alternatifs Calculabilité, logique et complexité The student chooses a course from:

Stinfo1123	Calculability, Logic and Complexity	Yves Deville	Elt [q2] [30h+30h] [5 Credits] 🕮		
SINC1123	Calculability, Logic and Complexity	Maxime Parmentier (compensates Yves Deville)			

# 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.

## 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

- > General access requirements
- Specific access requirements
- > University Bachelors
- Non university Bachelors
- > Holders of a 2nd cycle University degree
- > Holders of a non-University 2nd cycle degree
- > Access based on validation of professional experience
- > 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.

## **University 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 integrated into their Master's degree programme. If the UCLouvain Admissions Office considers the enrolment application sufficiently complete, it will submit the application to the faculty for a decision.		
Others Bachelors of the French speaking Community of Belgium					
Bachelier en sciences informatiques		Direct access			
Bachelors of the Dutch speaking Community of Belgium					
Bachelor in de informatica		Direct access			
Foreign Bachelors					
Bachelor in Computer Sciences		Access based on application	See "Personalized Access"		
Non university Bachelors					

#### > Find out more about links to the university

Diploma	Access	Remarks
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Entity

Structure entity Denomination SST/EPL/INFO

UCL - Université catholique de Louvain Study Programme 2024-2025 SINF2M1: Master [60] in Computer Science