UCLouvain

UCLouvain Study programme 2018 - 2019

Minor in Computer Sciences

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Introduction

Teaching profile

Learning outcomes

The aim of the minor in computer science is to equip the student with the basic concepts in computer science. To be more specific, s/he should:

- Master the basic foundations of computer science (programming, algorithms and data structures, computer languages, information systems,...)
- Analyze and solve medium-sized computing and IT problems by applying the acquired knowledge from different computer science domains.

On successful completion of this programme, each student is able to :

- Programmer

de maîtriser les fondements des matières de base de l'informatique

- programmation,
- algorithmique
- structures de données,
- langages informatiques,
- systèmes informatiques

de contribuer au développement d'applications de taille réduite en appliquant les connaissances acquises des domaines de l'informatique

- percevoir les contraintes techniques associées au développement de systèmes informatiques
- partager un langage commun avec les informaticiens

Detailled programme

PROGRAMME BY SUBJECT

O Mandatory	⊠ Optional
△ Courses not taught during 2018-2019	⊘ Periodic courses not taught during 2018-2019
⊕ Periodic courses taught during 2018-2019	Activity with requisites

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

O Programme pour les étudiants s'inscrivant à la mineure pour la première fois en 18-19

						Year 2	Year 3
O LINFO1101	Introduction à la programmation	Kim Mens Siegfried Nijssen Charles Pecheur	30h+30h	5 Credits	1q	x	
O LINFO1102	Projets en informatique 1	Olivier Bonaventure Etienne Riviere	30h+30h	5 Credits	1 + 2q	x	
O LINFO1103	Introduction à l'algorithmique	Pierre Dupont	30h+30h	5 Credits	2q	x	
O LEPL1402	Informatique 2		30h+30h	5 Credits	1q △		x
O LINFO1225	Conception orientée objet et gestion de données		30h+30h	5 Credits	2q △		x
O LINFO1341	Réseaux informatiques		30h+30h	5 Credits	2q △		x

O Programme pour les étudiants déjà inscrits à la mineure avant 18-19 (20 credits)

O LSINF1225	Object-oriented design and data management	Kim Mens	30h+30h	5 Credits	2q		x

O Cours obligatoires

O LINFO1101	Introduction à la programmation	Kim Mens Siegfried Nijssen Charles Pecheur	30h+30h	5 Credits	1q	x	
O LINFO1103	Introduction à l'algorithmique	Pierre Dupont	30h+30h	5 Credits	2q	x	
O LSINF1121	Algorithmics and data structures	Pierre Schaus	30h+30h	5 Credits	1q		x
O LSINF1225	Object-oriented design and data management	Kim Mens	30h+30h	5 Credits	2q	x	

O Cours au choix

De 10 à 10 CREDITS parmi

⊠ LSINF1252	Computer Systems	Olivier Bonaventure	30h+30h	5 Credits	2q		x
⊠ LINGI1101	Discrete mathematics: logical foundations of computing science	Peter Van Roy	30h+30h	5 Credits	1q		x
⊠ LINGI1122	Program conception methods	Charles Pecheur	30h+30h	5 Credits	2q		x
⊠ LINGI1123	Computability and complexity	Yves Deville	30h+30h	5 Credits	2q		x
⊠ LINGI1131	Computer language concepts	Peter Van Roy	30h+30h	5 Credits	2q		x
⊠ LFSAB1402	Informatics 2	Peter Van Roy	30h+30h	5 Credits	1q		x

COURSE PREREQUISITES

A document entitled (nb: not available for this programme linfo100i) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

These activities are identified in the study programme: their title is followed by a yellow square.

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.
In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult regulation of studies and exams.

THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a reference framework of learning outcomes specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document *"In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"*

Information

Liste des bacheliers proposant cette mineure

> Bachelor in Mathematics *[en-prog-2018-math1ba]*
> Bachelor in Economics and Management *[en-prog-2018-ecge1ba]*
> Bachelor in Law *[en-prog-2018-droi1ba]*
> Bachelor in Physics *[en-prog-2018-phys1ba]*

Admission

Specific Admission Requirements

The minor in computer science is accessible to any student with sufficient bases in mathematics, especially logic. Students, for whom this minor is not listed as available in the table https://uclouvain.be/programme-mineures , can send an email to the contact person to submit individual application.

This is a opening minor what offers the opportunity to access to the master in computer science.

Evaluation

The evaluation methods comply with the regulations concerning studies and exams (https://uclouvain.be/fr/decouvrir/rgee.html). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Possible trainings at the end of the programme

Students who have passed the minor in computer science have access to the master in computer science.

Students who have taken a minor in computer science and who are continuing their studies with a master in computer science must include as part of their master programme 4 basic computer science courses (20 credits) which were not already taken as part of their bachelor studies among :

LINGI1122, LINGI1123, LINGI1101, LINGI1113, LINGI1131

This addition to the student's master programme will be made without adding more than 5 credits to the total volume of the student's master programme, by replacing some of the optional courses in this student's master programme by these courses.

Contacts

Attention, you are currently reading an archived page: below contact informations were for program study 2018-2019 only. To get current contact informations please got to current program study site.

Curriculum Management

Entity

Structure entity	SST/EPL/INFO
Denomination	(INFO) (https://uclouvain.be/repertoires/entites/info)
Faculty	Louvain School of Engineering (EPL) (https://uclouvain.be/repertoires/entites/epl)
Sector	Sciences and Technology (SST) (https://uclouvain.be/repertoires/entites/sst)
Acronym	INFO
Postal address	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: Kim Mens

Useful Contact(s)

- Chantal Poncin

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