UCL Study programme

2013 - 2014

Minor in Computer Sciences

Table of contents

Introduction 2
Admission 3
Information 4
- Learning outcomes 4
- Possible trainings at the end of the programme 4
Contacts 5
Detailled programme 6
- Programme by subject .....
Infos 7

Introduction

Admission

For the specific conditions of this program : refer to the French version

Information

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 :

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

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

Curriculum Managment

Entite de la structure INFO

Acronyme	**INFO**
Dénomination	Commission de programme - Sciences informatiques et ingénieur civil en informatique
Adresse	Place Sainte Barbe, 2 bte L5.02.01 1348 Louvain-la-Neuve Tél 010 47 31 50 - Fax 010 45 03 45
Secteur	Secteur des sciences et technologies (SST)
Faculté	Ecole Polytechnique de Louvain (EPL)
Commission de programme	Commission de programme - Sciences informatiques et ingénieur civil en informatique (INFO)

Academic Supervisor : Kim MENS

Jury

Président du Jury : **Piotr SOBIESKI**

Usefull Contacts

Conseillère aux études : **Chantal PONCIN**

Detailled programme

PROGRAMME BY SUBJECT

- ○ Mandatory
- ⊠ Optional
- △ Courses not taught during 2013-2014
- ⊘ Periodic courses not taught during 2013-2014
- ⊕ Periodic courses taught during 2013-2014
- ⧺ Two years course

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

○ Mandatory Courses (20 credits)

						Year 2	Year 3
○ LSINF1101	Introduction to programming	Olivier Bonaventure, Charles Pecheur	30h+30h	5 Credits	1q	x	
○ LSINF1103	Algorithmics	Pierre Dupont	30h+30h	5 Credits	2q	x	
○ LSINF1121	Algorithmics and data structures	Pierre Dupont	30h+30h	5 Credits	1q		x
○ LSINF1225	Object-oriented design and data management	Kim Mens	30h+30h	5 Credits	2q	x	

○ Choice Courses of the minor in computer sciences (10 credits)

The student complete his minor programme with 2 courses to be choosen among

⊠ LSINF1252	Computer Systems 1	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
⊠ LINGI1113	Computer systems 2	Marc Lobelle	30h+30h	5 Credits	1q		x
⊠ LINGI1122	Program conception methods	José Vander Meulen	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	x

Infos