Faculty of Arts and Letters

LING2MS Master en linguistique, à finalité spécialisée en ingénierie linguistique (Master of Linguistics, leading to specialisation in Linguistic Engineering)

Programme management

CLIG Commission de gestion des diplômes en linguistique
Responsable académique :Cédrick Fairon   Tél. 010473788
Contact : Annie Troost   Tél. 010474940
                                                                                                   troost@germ.ucl.ac.be

Study objectives

The Master's programme in Linguistics aims to provide the students with in-depth training in General and Applied Linguistics. It offers a vast choice from among numerous specialisations. The programme gives an excellent basis for students who are interested in scientific and linguistic research. In addition, this master can likewise orientate the students towards professions in the domains of linguistic engineering, written and oral communication, dictionary work and specialised terminology etc.
The targeted specialisation in Linguistics Engineering is the fruit of a collaboration with the following institutions : FUNDP (Namur), FPMs (Mons), and KULeuven. It aims to train the students in the methods and concepts essential for the automatic processing of a natural language (written and oral) while enabling them to acquire and deepen the computer knowledge necessary in this domain. This line of studies opens up access to the job market of language industries (processing of intelligent texts, man-machine vocal/textual interfaces, help tools for the management and translation of documents, documentary navigation, educational soft-ware, electronic dictionaries and grammar books, etc) or paves the way for doctoral research.
Complementary Information : http://ling.fltr.ucl.ac.be/form/master/geli/

Admission conditions

Subject to the conditions fixed by the Faculty authorities, access to this programme is granted to university graduates or to students who have enrolled for their last year of undergraduate studies. In the case of the latter, the master's degree can only be obtained after the awwarding of the bachelor's degree .

Admission procedures

The University admission and enrolment procedures are detailed under the section heading "General Information" on the WEB page : http://www.ucl.ac.be/etudes/programme.html

General structure of the programme

This two year programme consists of :
•   a core syllabus (60 credits) including an introduction to linguistics courses (32 credits), a thesis and a period of work experience (28 credits);
•   a specialisation (30 credits) in Linguistics Engineering ;
•   an option (30 credits) related to the specialisation.
Dispensations may be granted for candidates who manage to have their equivalences validated.

Programme content

A.- Core syllabus (32 credits)
Introduction to General Linguistics

FLTR2270 *or*	General linguistics : semantics[30h] (4 credits) (in French)	Elisabeth Degand
CLIG2120	Linguistic semantics and general semiotics[30h] (4.5 credits) ⌂ (in French)	N.
CLIG2190	Introduction to the quantitative analysis of linguistic data[30h] (4 credits) (in French)	Cédrick Fairon
FLTR2620	Natural language processing[30h] (4 credits) (in French)	Cédrick Fairon

ESPO2102	Statistics[30h+15h] (5 credits) (in French)	Dominique Deprins
ROM2371	Seminar: French Linguistics I[15h] (3 credits) ⊘ (in French)	Michel Francard, Anne-Catherine Simon
ROM2140	French Linguistics : general issues in syntax[30h] (4 credits) (in French)	Anne-Catherine Simon
ROM2170	French Linguistics : further issues in Lexicology[30h] (4 credits) (in French)	Jean Klein
FILO2220	Philosophy of language[30h] (4 credits) (in French)	Marcel Crabbé

B. Specialisation in Linguistics Engineering (30 credits)
Module 1 : Computer Studies (15 credits)

LINF2121	Algorithmics and data structures[30h+30h] (5 credits) (in French)	Pierre Dupont (coord.), Baudouin Le Charlier, Kim Mens
LINF2125	Projet de programmation : application de gestion[0h+60h] (5 credits) (in French)	Marco Saerens
INGI2271	Database management systems[30h+30h] (5 credits) (in French)	Alain Pirotte (coord.), Marco Saerens

Module 2 : Automatic Language processing (15 credits)

FLTR2630	Introduction to automatic text processing[30h] (6 credits) (in French)	Cédrick Fairon
GELI2009	Panorama des applications de l'ingénierie linguistique[30h] (5 credits) (in French)	N.
GELI2003	Introduction aux méthodes et concepts essentiels d'ingénierie linguistique (cours FUNDP : INFO 2327)[30h] (4 credits) (in French)	N.
GELI2005	Introduction au traitement de la parole (cours FPMS)[15h] (3 credits) (in French)	N.

C. Option (30 credits)
The first four courses are compulsory for students who have not followed any equivalent tuition :

SINF1150A	Introduction à l'algorithmique et programmation A[30h+30h] (6 credits) ⚠ (in French)	Baudouin Le Charlier
SINF1150B	Introduction à l'algorithmique et programmation B[30h+30h] (6 credits) ⚠ (in French)	Baudouin Le Charlier
GETI2101	Information systems analysis and design[65h] (7.5 credits) (in French)	Manuel Kolp, Alain Pirotte

or

GELI2023	Bases de données dans les systèmes d'information (FUNDP - DGTI3123)[30h] (3 credits) ⚠ (in French)	N.
GELI2001	Compléments de mathématiques (cours FPMS - EAD)[40h] (5 credits) (in French)	N.
SINF1252	Introduction to computer systems[30h+30h] (6 credits) (in French)	Marc Lobelle
INGI2132	Languages and translators[30h+30h] (5 credits) (in French)	Baudouin Le Charlier (coord.), Peter Van Roy
LINF2356	Interfaces homme-machine[45h] (4 credits) (in French)	Jean Vanderdonckt
STAT2550	Data Mining[15h+15h] (5 credits) (in French)	Libei Chen
ELEC2930	Intoduction to telecommunication[30h+15h] (4 credits) (in French)	Auguste Laloux
CLIG2140	Séminaire de linguistique computationnelle[30h] (4 credits) ⚠ (in French)	N.
GERM2218	English linguistics seminar : corpus linguistics[15h] (4 credits) (in English)	Fanny Meunier

KULeuven
The following courses at KUL may likewise be chosen as an option :

LING2001	Text based information retrieval (KUL - H0J61)[28h] (4 credits) ⚠ (in French)	N.
LING2002	Natural language Processing (KUL - H0C28A)[32.5h] (4 credits) ⚠ (in French)	N.
LING2003	Linguistic theories and artificial intelligence (KUL - H0D36A)[32.5h] (4 credits) ⚠ (in French)	N.
GELI2024	Language Engineering Applications (KUL - H0J65A)[32.5h]	N.

	(4 credits) ⚒ (in French)	
GELI2025	Foundations of Formal Theories of language (KUL - W098)[26h] (4 credits) ⚒ (in French)	N.
GELI2026	Taaltechnologie (KUL - F430)[30h] (4 credits) ⚒ (in French)	N.
GELI2027	Toepassingen van computerlinguïstiek (KUL - G383)[60h] (8 credits) ⚒ (in French)	N.

E. Thesis and apprenticeship (28 credits)

The student will complete an apprenticeship in a research laboratory (in a university or in industry) for a minimum of 7 weeks (14 weeks part-time). A list of teams ready to welcome the students will be available at the secretary's office. Depending on the availability of the research teams, this period will take place preferably during the second semester of the first year or during the first semester of the second year.

The student must present a thesis (50 to 100 pages) on a linguistic subject relating to the subject matter taught in the context of the degree, preferably in the prolongation of his work experience in a research laboratory.