

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

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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 awarding 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 General linguistics : semantics[30h] (4 credits) (in French) Elisabeth Degand

or

CLIG2120 A préciser (in French)

CLIG2190 Introduction to the quantitative analysis of linguistic data[30h] (4 credits) (in French) Cédric Fairon

FLTR2620 Natural language processing[30h] (4 credits) (in French) Cédric Fairon

ESPO2102 Statistics[30h+15h] (5 credits) (in French) Dominique Deprins

<u>ROM2371</u>	Seminar: French Linguistics I[15h] (3 credits) ⊕ (in French)	Michel Francard, Anne-Catherine Simon, Anne-Catherine Simon (supplée Michel Francard)
<u>ROM2140</u>	French Linguistics : general issues in syntax[30h] (4 credits) ▲ (in French)	Anne-Catherine Simon
<u>ROM2170</u>	French Linguistics : further issues in Lexicology[30h] (4 credits) (in French)	Jean Klein
<u>FILO2220</u>	A préciser (in French)	
B. Specialisation in Linguistics Engineering (30 credits)		
Module 1 : Computer Studies (15 credits)		
<u>LINF2121</u>	A préciser (in French)	
<u>LINF2125</u>	Projet de programmation : application de gestion[0h+60h] (6 credits) ▲ (in French)	Marco Saerens
<u>INGI2271</u>	A préciser (in French)	
Module 2 : Automatic Language processing (15 credits)		
<u>FLTR2630</u>	Introduction to automatic text processing[30h] (5 credits) (in French)	Cédric Fairon
<u>GELI2009</u>	Panorama des applications de l'ingénierie linguistique[30h] (4 credits) (in French)	N.
<u>GELI2003</u>	Introduction aux méthodes et concepts essentiels d'ingénierie linguistique (cours FUNDP : INFO 2327)[30h] (4 credits) (in French)	N.
<u>GELI2005</u>	Introduction au traitement de la parole (cours FPMS)[15h] (3 credits) (in French)	N.
C. Option (30 credits)		
<i>The first four courses are compulsory for students who have not followed any equivalent tuition :</i>		
<u>SINF1150A</u>	A préciser (in French)	
<u>SINF1150B</u>	A préciser (in French)	
<u>GETI2101</u>	Information systems analysis and design[65h] (7.5 credits) (in French)	Manuel Kolp, Alain Pirotte
<i>or</i>		
<u>GELI2023</u>	Bases de données dans les systèmes d'information (FUNDP - DGTI3123)[30h] (3 credits) (in French)	N.
<u>GELI2001</u>	Compléments de mathématiques (cours FPMS - EAD)[40h] (5 credits) (in French)	N.
<u>SINF1252</u>	Introduction to computer systems[30h+30h] (5 credits) (in French)	Marc Lobelle
<u>INGI2132</u>	Languages and translators[30h+30h] (5 credits) ▲ (in French)	Baudouin Le Charlier (coord.), Peter Van Roy
<u>LINF2356</u>	Interfaces homme-machine[45h] (5 credits) (in French)	Jean Vanderdonckt
<u>STAT2550</u>	Data Mining[15h+15h] (5 credits) (in French)	Libei Chen
<u>ELEC2930</u>	Introduction to telecommunication[30h+15h] (4 credits) (in French)	Auguste Laloux
<u>CLIG2140</u>	Séminaire de linguistique computationnelle[30h] ☒ (in French)	N.
<u>GERM2218</u>	English linguistics seminar : corpus linguistics[15h] (4 credits) (in English)	Gaëtanelle Gilquin, Sylviane Granger
KULeuven		
<i>The following courses at KUL may likewise be chosen as an option :</i>		
<u>LING2001</u>	Text based information retrieval (KUL - H0J61)[28h] (5 credits) (in French)	N.
<u>LING2002</u>	Natural language Processing (KUL - H0C28A)[32.5h] (5 credits) (in French)	N.
<u>LING2003</u>	Linguistic theories and artificial intelligence (KUL - H0D36A)[32.5h] (5 credits) (in French)	N.
<u>GELI2024</u>	Language Engineering Applications (KUL - H0J65A)[32.5h] (4 credits) (in French)	N.
<u>GELI2025</u>	Foundations of Formal Theories of language (KUL - W098)[26h] (4 credits) (in French)	N.
<u>GELI2026</u>	Taaltechnologie (KUL - F430) [30h] (4 credits) (in French)	N.

GELI2027 Toepassingen van computerlinguïstiek (KUL - G383)[60h] N.
(8 credits) (in French)

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.