

**At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In French**

Dissertation/Graduation Project : **YES** - Internship : **YES**

Activities in English: **optional** - Activities in other languages : **NO**

Activities on other sites : **NO**

## STIC2M - Introduction

### Introduction

#### Introduction

During the last decades, the production and dissemination of knowledge as well as the management of information have been profoundly influenced by the "digital revolution", both in the fields of Sciences and technologies, as well as in the human and social sciences, the Arts and letters. This revolution has favored the development of media and digital technologies in the form of technical, informational but also social objects which have in common the fundamental modification of their users' relationship to knowledge(s) and information.

The master's degree must therefore train the student in the skills required to

- identify these new challenges in digital information management and knowledge mediation,
- design, produce, implement and evaluate media systems that meet these challenges and
- train users of these in the skills required by these new devices.

The expression "media device" designates any arrangement that has the three classic properties of media: informational (dealing with a theme), technical (being a machine) and social (connecting people). A paper or electronic book, a mobile application, a museum, a search engine, a crowdfunding platform, a theater, a media library, a website, a video game, or a database should therefore be considered as a media device. documentaries, for example.

During their course, the student is trained to analyze, design, disseminate and evaluate multimedia technical devices which aim to produce, make available, promote and manage access to documentary resources and to promote the knowledge mediation. More than before, today's media offer users great freedom of action. Particular emphasis is therefore placed on the ability of students

- to observe, analyze and model the practices of users and different audiences using these media devices;
- to observe, analyze and model the possibilities and constraints specific to each of these media devices;

- to design in an appropriate manner, that is to say in a critical and ethical manner, new systems meeting the needs of users in terms of sharing information and knowledge.

To ensure this training has the necessary interdisciplinary expertise, this master's degree is built on an interfaculty structure: it combines the skills of teachers coming from the Faculty of Philosophy, Arts and Letters (FIAL) and the other from the Faculty of Economic, Social, Political and Communication Sciences (ESPO), more particularly from its School of Communication (COMU).

#### Your profile

You are interested in :

- the establishment of knowledge sharing systems, whether in a museum, an exhibition, a library, a science park, a theater, a cinema, a video game, a website, a social network, a platform learning,...
- aspects of design-evaluation of media for educational purposes and information management (digital processing, archiving, visualization, etc.);
- information and communication technologies and wish to participate in their development;
- the acquisition of practical skills in multimedia technology and the concern to base these on an in-depth knowledge of information and communication sciences and technologies.

#### Your future job

The holder of the Master's degree in Science of information and communication technologies is trained to intervene in any situation where an appropriate media response to an issue (informative, social, public health, environmental, civic, etc.) and adapted to the audience concerned is expected. In practical terms, this response will consist of producing a media system tailored to the issues and audiences for whom information needs to be made available and/or knowledge, attitudes and behaviour need to be changed.

In terms of jobs, holders of a master's degree in Science of information and communication technologies can design educational tools, raise awareness of the challenges of innovation in different contexts, manage information or provide training and support in the use of new media. With their multi-disciplinary and sufficient technical, informational and social skills, experts in Information and Communication Sciences and Technologies occupy an essential position between those responsible for 'content' in the fields concerned, public or private institutional decision-makers and the teams responsible for technical design.

In the immediate future, with the proliferation of social intelligence technologies and the very high expectations of both the knowledge industries and public authorities keen to invest in digital educational technologies and information and knowledge management, the digital knowledge mediation environments sector will represent a considerable source of employment, with its high-level skills requirements.

#### Your programme

The Master's degree offers you on one hand a common base where each student is confronted with the basic concepts, theories and techniques which underlie the analysis and design of media devices for the circulation of knowledge, as well as preparation to the demands of university work and his future profession. Then, the student chooses to focus either on the "digital information management" focus, or on the "design and evaluation of educational media" focus. Finally, he/she will complete his training program by choosing two options from the following (or an international stay):

- Educational media design
- Analysis and visualization of information
- Digital culture and ethics
- or a transversal option:

Media culture

Multilingual communication

INEO - Interdisciplinary training in entrepreneurship (ex-CPME)

Gender Modules

## STIC2M - Teaching profile

### Learning outcomes

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

1.

#### In terms of general skills

1. Demonstrate mastery of basic concepts relating to the understanding of the media from the angle of their technical devices, the social systems which generate and result from them, and the epistemic systems which generate and are their products.

1.1

Demonstrate mastery of basic concepts relating to the understanding of media and information management from the perspective of their technical devices, the social systems which generate and result from them, and the epistemic systems which generate and are from them products.

1.2.

Apply these concepts to different contexts of time and place.

1.3.

Analyze and evaluate the objects and processes of media circulation of knowledge in different social, political and cultural contexts in order to account for their effectiveness and the social, political and cultural issues that they reveal and produce.

1.4.

Demonstrate advanced skills in contemporary media literacy.

- Read and navigate among media, according to their informational, technical and social dimensions.
- Produce and organize media, in their informational, technical and social dimensions.

1.5.

Diagnose people's skills in using the media according to their informational, technical and social dimensions.

1.6.

Design and implement the steps of a research.

- Gather scientific documentation relating to a theme.
- Formulate a research question relating to a knowledge mediatization problem.
- Select and implement the methodological procedures for collecting, analyzing and synthesizing data necessary to carry out research.
- Write a report on research and its popularization.

1.7. When faced with a problem, demonstrate the ability to imagine alternative solutions and choose the best one.

1.8.

Work effectively in groups and alone.

1.9. Meet the standards of level B2 of the "Common European Framework of Reference for Languages" in spoken and read English and in a second spoken and read foreign language. Level B1 will be reached in terms of written expression.

2.

#### In terms of sectoral skills,

10. When faced with a problem, demonstrate the ability to imagine alternative solutions and choose the best one.

2.1.

For students following the "design and evaluation of educational media" focus:

2.1. a

Expertly master the media considered as vectors of knowledge.

The subject of the graduate's skills extends to media considered as vectors of knowledge, in all the socio-technical modalities of their production, circulation, reception, exploration and collection.

2.1.b

As a project manager, design, manage and evaluate complex systems and documents intended to enable different audiences to construct, appropriate and share knowledge, opinions and feelings about any subject likely to 'interest. Concretely, this covers awareness, prevention, promotion, documentation, conservation, training, teaching about contemporary subjects such as citizenship, culture, arts, environment, development, security , health, etc.

- Identify communication

- Summarize the results and propose optimizations.

2.1.c.

Ensure the operation of the aforementioned devices, in correct conditions of security and informational, technical and social resilience.

2.1.d.

Manage your personal knowledge base about media sectors and their operating modes of intervention.

2.1.e.

Identify the evolution of technologies, productions and knowledge media systems, and build up a dynamic literacy.

- Monitor this development.
- Master the technical skills in the IT and digital fields necessary to perform the functions of knowledge media manager.
- Act as a mediator between technology professionals and people or institutions requesting knowledge mediation devices.
- Act in promoting societal issues of sharing knowledge and collective intelligence.
- Take a critical look, scientifically based and anchored from an epistemological point of view, on the image of computing and digital technology and on their social, cultural, economic and political implications.
- Master the forms of regulation (laws, regulations, standards, habits and customs) specific to the field.

2.1.f.

Identify the knowledge, skills and cultures of different social groups and draw on them appropriately.

2.1.g.

Master the assessment of media skills of different audiences and the conditions for their development.

2.1.h.

Adopt a professional attitude in the workplace:

Participate in the management of stakeholder institutions, in particular assume the various tasks inherent to the management and coordination functions of a service, within a public or private organization, with a general or specialized purpose, with a local or regional vocation, national or even international.

Engage in professional practice by having integrated a logic of continuous development, particularly within professional networks by participating and collaborating in their activities and projects.

Train and inform employees in the design and evaluation of knowledge media.

Critically use basic audio-scripto-visual communication and coordination tools and their network uses.

2.1.i.

Develop research to advance professional practices in educational media engineering.

2.2

For students following the “digital information management” focus:

2.2.a.

Expertly master digital information and its management systems.

The subject of the graduate's skills extends to digital information taken in the broad sense (electronic literary text, linguistic survey data, audiovisual document, etc.), as well as the critical understanding of the principles governing the structured management of these information.

2.2.b.

As a digital information manager, know how to encode, organize, edit or format, sort or search information within a complex management system, with a view to allowing the conservation and appropriate dissemination of this information or documents, respecting their life cycle and the legal provisions in force.

2.2.c.

Ensure the establishment and proper functioning of digital information management systems, from data structuring to the implementation of ad hoc management software, including the creation of (retro)digitization protocols, coding, structuring and queries.

2.2.d.

Given the manipulation of large volumes of digital data, with strong textual components, the student will have the ability to use computer techniques for automatic processing of this data and will be familiar with the intellectual approach accompanying this type of processing in the human sciences .

2.2.e.

Identify the evolution of information management issues in the human sciences:

Be familiar with monitoring instruments in the field

In terms of research: understanding of critical and epistemological issues (i.e. “Digital Humanities”).

On a professional level: understanding of the evolution of tools and methods in different professional contexts of digital information management (publishing, documentation and archives center, libraries, etc.)

2.2.f.

Identify users' needs in terms of knowledge and information, and know how to adapt the management system and processing and dissemination methods appropriately.

2.2.g.

Master the choice of methods, technologies, tools, as well as vocabulary appropriate to any information management system development project. This skill notably involves the ability to work in a multidisciplinary context.



Year

○ LSTIC9005

Training course

PK [q1 or q2] [] [15 Credits] 

1 2

x





				Year	
				1	2
○ LCOMU2270	COGNITIVE SEMIOLOGY	Arnaud Claes (compensates Pierre Fastrez)	PR [q2] [30h] [5 Credits]	X	
○ LCOMU2663	Educational effects of media	Martin Culot Valéria Ligurgo	PR [q1] [30h] [5 Credits]	X	
○ LCOMU2812	Expérience utilisateur	Suzanne Kieffer	PR [q2] [30h] [5 Credits]	X	
○ LCOMU2600	Scientific popularisation	Jerry Jacques	PR [q1] [30h] [5 Credits]	X	
○ LCOMU2603	Research Seminar in mediatic technologies 1	Pierre Fastrez Camille Tilleul	PR [q1] [15h] [2 Credits]	X	
○ LCOMU2608	Research Seminar in mediatic technologies 2	Pierre Fastrez Camille Tilleul	PR [q2] [15h] [3 Credits]	X	

## **OPTIONS [30.0]**

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L'étudiant choisit une option ou des cours au choix pour 15 crédits, en accord avec le secrétaire du jury.

### Options propres au programme STIC2M

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- > **Culture et éthique du numérique** [ en-prog-2024-stic2m-lstic941o ]
- > **Design de médias éducatifs** [ en-prog-2024-stic2m-lstic942o ]
- > **Analyse et visualisation de l'information** [ en-prog-2024-stic2m-lstic943o ]

### Autres options proposées pour le programme STIC2M

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- > **Communication multilingue** [ en-prog-2024-stic2m-lcomu209o ]
- > **Culture médiatique** [ en-prog-2024-stic2m-lcomu248o ]
- > **Echange Erasmus ou international** [ en-prog-2024-stic2m-lstic944o ]
- > **INEO - Interdisciplinary Entrepreneurship Training** [ en-prog-2024-stic2m-lcomu210o ]
- > **Modules Genre** [ en-prog-2024-stic2m-lcomu250o ]

## **OPTIONS PROPRES AU PROGRAMME STIC2M**

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## **CULTURE ET ÉTHIQUE DU NUMÉRIQUE [15.0]**

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- Mandatory
  - ⊗ Optional
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## ANALYSE ET VISUALISATION DE L'INFORMATION [15.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

Year

1 2

### o Content:

Les cours LCOMU2810 et LCOMU2811 sont obligatoires. L'étudiant-e complètera son option par un des cours au choix.

Code	Titre	Enseignant	Langue	Semestre	Crédits	1	2
● LCOMU2810	<a href="#">In-depth data collection and analysis methods</a>	Cédric Heuchenne	(FR) [q2] [22.5h] [5 Credits] 🌐			x	x
● LCOMU2811	<a href="#">Information visualisation and multimodal presentation</a>		🌐			x	x

'INF13811

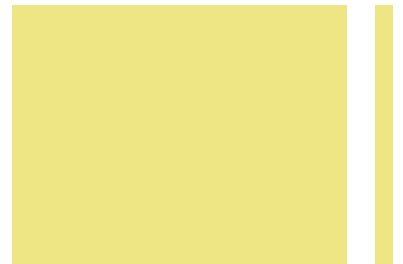
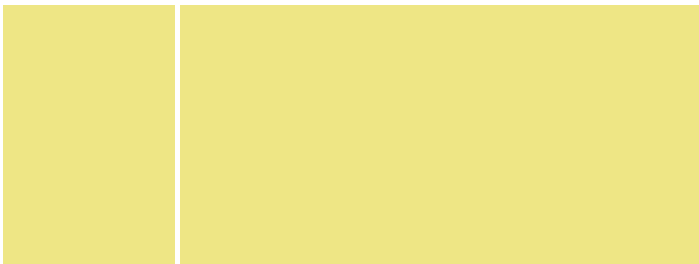
[q2] 305+1.5h] [5 Credits]

x x

LCOMU6321



x x



## AUTRES OPTIONS PROPOSÉES POUR LE PROGRAMME STIC2M

## COMMUNICATION MULTILINGUE [15.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

Year

1 2

## o Content:

## o Compréhension à la lecture et vocabulaire économique

L'étudiant choisit une des activités parmi :

⊗ LMULT2213	Reading comprehension and vocabulary extension: economic and commercial texts in German	Marie-Luce Collard	DE [q1] [22.5h] [5 Credits] 🌐	X	X
⊗ LMULT2223	Reading comprehension and vocabulary extension: economic and commercial texts in English	Marie-Aude Lefer (compensates Sylvie De Cock)	EN [q1] [22.5h] [5 Credits] 🌐	X	X
⊗ LMULT2233	Reading comprehension and vocabulary extension: economic and commercial texts in Dutch	Marlène Vrancx	NL [q1] [22.5h] [5 Credits] 🌐	X	X

## o Activités au choix (10 credits)

L'étudiant choisit 2 activités parmi :




⊗ LMULT2411	Economic, legal, social and political issues in German-speaking countries	Dany Etienne	DE [q1] [30h+15h] [5 Credits] 🌐	X	X
⊗ LMULT2414	Oral business communication techniques in German 1	Manon Hermann Ann Rinder	DE [q1] [15h+15h] [5 Credits] 🌐	X	X
⊗ LMULT2421	Economic, legal, social and political issues in English-speaking countries	Paul Arblaster	EN [q1] [30h+15h] [5 Credits] 🌐	X	X



### o Activités au choix (10 credits)

⌘ Pour les étudiant-es qui suivent la finalité "Communication stratégique des organisations" du Master 120 en communication (LLN) (10 credits)

10 crédits d'activités parmi :

⌘ LCOMU2615	Corporate communication	Damien Renard	EN [q1] [30h+15h] [5 Credits] 	X	X
⌘ LCOMU2708	Participation and digital controversies	Damien Renard Sandrine Roginsky	EN [q2] [30h] [5 Credits] 	X	X
⌘ LCOMU2610	Internal communication and communication of change	François Lambotte Katja Werbrouck (compensates François Lambotte)	EN [q1] [30h] [5 Credits] 	X	X

⌘ Pour les autres étudiants (10 credits)

10 crédits d'activités d'une option complémentaire de la finalité choisie.









⌘ LPOLS1221	Quantitative Data Analysis	Mireille Le Guen	FR [q1] [25h+20h] [4 Credits] 🌐
⌘ LHIST1320	Quantitative methods in studying history	Aurore François	FR [q1] [22.5h] [5 Credits] 🌐
⌘ LCOMU1241	STIC Project	Thibault Philippette	FR [q1+q2] [15h+30h] [10 Credits] 🌐
⌘ LCOMU1322	Media and Communication Law	François Jongen	FR [q1] [30h] [4 Credits] 🌐
⌘ LFIAL2020	Code et Culture: Python for digital humanities - Chaire Altissia	Isabelle Gribomont	FR [q2] [22.5h] [5 Credits] 🌐 > English-friendly

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## Course prerequisites

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The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

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

### Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

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### # Prerequisites list

**LSTIC2892B** "Mémoire ou Mémoire-projet - Mémoire" has prerequisite(s) LCOMU2910 ET LSTIC2892A

- LCOMU2910 - [Seminar : Support in Methodology](#)
- LSTIC2892A - [Dissertation - preparatory research for dissertation](#)

## The programme's courses and learning outcomes

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For each UCLouvain training programme, a [reference framework](#) ETch .SeETch .Se1 0 0 -3edborkJ1 0 | 481.890991-177 Tm ing thatAs if tknt s exJ 1t

## STIC2M - 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

1° Hold an undergraduate university degree or hold a diploma of the same academic grade but for another purpose.

2° Provide proof of sufficient mastery of the French language (level C1 of the Common European Framework of Reference, DELF test).

3° All students who do not access the master's degree via the bachelor's degree in information and communication at UCLouvain will be required to provide proof of sufficient mastery of English (level B2 of the Common European Framework of Reference) .

4° As part of the LANGL2601 C course, students will be required to complete a language level test at the start of the term. Students who fail this will be directed to the LANGL1330 course as a prerequisite. In this case, they will include the LANGL2601 course in their program in the second year of their master's degree.

5° This master's degree is not linked to a specific baccalaureate (so-called "orphan" master's degree), admission is only based on file examination. Depending on the student's previous experience and the missing prerequisites, the jury may add additional training of a maximum of 60 credits to the Master's program (see list in the Additional Access Conditions). The teaching units included in this list are indicative. Depending on the student's previous experience, other units could be added to this list, without however being able to exceed 60 credits.

The student who has followed, in his bachelor's program, the minor in digital technologies and society (MINSTIC) will have direct access to the master's degree.

Equivalences between courses are subject to the approval of the jury.

### University Bachelors

Diploma	Special Requirements	Access	Remarks
<b>UCLouvain Bachelors</b>			
All Bachelor	with the #prog:title:min-LSTIC100i#	Direct access	If it considers it sufficiently complete, the UCLouvain Registration Service will be



BA en commerce extérieur - crédits supplémentaires entre 45 et 60

BA en communication - crédits supplémentaires entre 45 et 60

BA en domotique - crédits supplémentaires entre 45 et 60

BA en droit - crédits supplémentaires entre 45 et 60

BA en e-business - crédits supplémentaires entre 45 et 60

BA en écriture multimédia - crédits supplémentaires entre 45 et 60

BA en électronique (électronique appliquée) - crédits supplémentaires entre 45 et 60

BA en électronique (électronique médicale) - crédits supplémentaires entre 45 et 60

BA en gestion des ressources humaines - crédits supplémentaires entre 45 et 60

BA en informatique de gestion - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation automatique - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation gestion technique des bâtiments - domotique - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation informatique industrielle - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation réseaux et télécommunications - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation robotique - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation sécurité des systèmes - crédits supplémentaires entre 45 et 60

BA en informatique et systèmes, orientation systèmes de développement d'applications - crédits supplémentaires entre 45 et 60

Master in Human Sciences of the French Speaking Community	Access with additional training	Additional teaching integrated into the master's program (maximum 30 credits)
Foreign Master	Access based on application	With 15 credits prerequisites integrated into the masters programme or Titre inconnu:lstic1pm

## Holders of a non-University 2nd cycle degree

### Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

Adults with professional experience will be able to register for the program based on an individualized admission procedure.

### Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

Students holding an academic degree of 1st cycle (minimum 3 years or 180 credits) or 2nd cycle (minimum 5 years or 300 credits) in information and communication or in another human sciences discipline, delivered by a university outside Europe recognized by the AUF (see <https://www.whed.net/home.php> and [https://www.auf.org/les\\_membres/nos-membres/](https://www.auf.org/les_membres/nos-membres/)), must have obtained at least 70% (or 14/20) average for all the academic years of their 1st cycle successfully completed in their home university to have the possibility of applying for admission to the master's program in information and communication sciences and technologies (120).

Any application for admission must be accompanied by a cover letter which will specify the specialized purpose. She will justify this choice with an argument concerning 3 teaching units of the chosen purpose.

These criteria will be strictly applied, which means that applications which do not meet them will be automatically excluded.

Admitted students will follow the 120 credits of the master's degree in their entirety.

If their previous course is considered incomplete, additional courses can be added to their program (maximum 60 credits).

### Admission and Enrolment Procedures for general registration

Requests for additional information regarding admission should be addressed to Mme Laurence Minguet ([laurence.minguet@uclouvain.be](mailto:laurence.minguet@uclouvain.be)).

International candidates should submit their request to the University Enrolment Office according to the procedure outlined at : <https://uclouvain.be/inscription>



## Teaching method

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The mandatory professional internships and all that this brings with it guarantee a balance between reflection of a theoretical and practical nature and knowledge of the 'nuts and bolts' of the jobs in question. Interdisciplinary constitutes a fundamental aspect of the training because along with specific courses come other courses borrowed from the faculties of law, economics, social and

- President: [Paul Bertrand](#)
- Secretary: [Benoît Grevisse](#)

Useful Contact(s)

- Conseillère aux études: [Laurence Minguet](#)

