UCLouvain

STIC2M

2024 - 2025

Master [120] in Information and Communication Science and Technology

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 uses 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.

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				Year	
				1	**2**
O LSTIC9005	Training course		EN [q1 or q2] [] [15 Credits] ⊕		x

o Langues (3 credits)

Un cours au choix parmi :

⌗ LNEER2501	Seminar of professional integration: Dutch - intermediate level	Marie-Laurence Lambrecht Lutgarde Schrijvers (coord.)	

				Year
				1	2
O LCOMU2270	COGNITIVE SEMIOLOGY	Arnaud Claes (compensates Pierre Fastrez	[q2] [30h] [5 Credits]	x	
O LCOMU2663	Educational effects of media	Martin Culot			

OPTIONS [30.0]

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

> 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

> Communication multilingue   *[en-prog-2024-stic2m-lcomu209o]*

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

⊙ *Content:*

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

⊙ LCOMU2810

AUTRES OPTIONS PROPOSÉES POUR LE PROGRAMME STIC2M

COMMUNICATION MULTILINGUE [15.0]

O 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, ...)

CULTURE MÉDIATIQUE [15.0]

○ Mandatory
✗ Optional
△

Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

○ Mandatory
⊗ Optional
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△ ⊕ Not offered in 2024-2025 or the following year
🟨 Activity with requisites
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Maximum 60 credit(s)

⊗ LFIAL1156	Digital Literacy in the Humanities and Social Sciences	Paul Bertrand	FR [q1] [15h+15h] [3 Credits] 🌐
⊗ LFIAL1560	General linguistics : semantics and pragmatics	Elisabeth Degand	FR [q1] [30h] [5 Credits] 🌐 *> English-friendly*
⊗ LANGL2433	English Communication Skills	Stéphanie Brabant Aurélie Deneumoustier (coord.) Marie Duelz (coord.) Claudine Grommersch	EN [q1 or q2] [30h] [3 Credits] 🌐
⊗ LCOMU1121	General Semiotics	Gaël Gilson Gaël Gilson (compensates Andrea Catellani)	FR [q1] [22.5h] [4 Credits] 🌐
⊗ LCOMU1126	Anthropology of communication	Sophie Del Fa	FR [q2] [22.5h] [5 Credits] 🌐
⊗ LCOMU1127	Informatique, communication et multimédia	Thibault Philippette	FR [q2] [20h+10h] [5 Credits] 🌐
⊗ LCOMU1211	Theories in Information and Communication	Esther Haineaux (compensates Thibault Philippette) Thibault Philippette	FR [q2] [30h+20h] [5 Credits] 🌐
⊗ LCOMU1212	Approches qualitatives en information et communication	Pauline Zecchinon	FR [q1] [15h+10h] [5 Credits] 🌐
⊗ LCOMU1225	Méthodes d'analyse de contenu	Sarah Sepulchre	FR [q2] [15h+10h] [5 Credits] 🌐

Course prerequisites

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 puposes 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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Prerequisities 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

For each UCLouvain training programme, a reference framework of learning outcomes specifies the the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

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.

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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
UCLouvain Bachelors			
All Bachelor	with the #prog:title:min-LSTIC100i#	Direct access	If it considers it sufficiently complete, the UCLouvain Registration Service will be

| 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/), 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).

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

- President: Paul Bertrand
- Secretary: Benoît Grevisse

Useful Contact(s)

- Conseillère aux études: Laurence Minguet

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