



INDUSTRIAL ENGINEERING GRAMME



HELMo Gramme is accredited by



DESTINATION

HELMo University College in the Walloon region

8200
STUDENTS

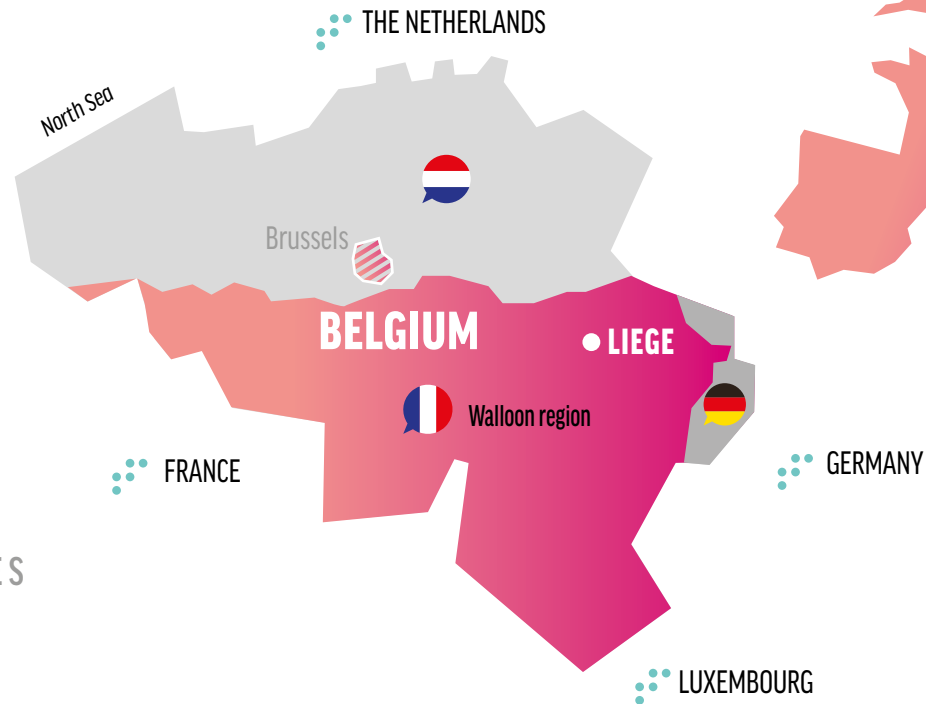
5
DEPARTMENTS

900
STAFF
MEMBERS

+40 BACHELOR,
MASTER DEGREES AND
SPECIALIZATIONS

1800
GRADUATES A YEAR

11 INSTITUTES
AND 3 CAMPUSES
in Liège, Loncin, Huy,
Theux and Verviers





Studying at HELMo is...



Attending programmes of high quality, which allow students to **be creative and active** during their studies

Working closely with the **local community** and with a **very large network of organizations** willing to help its students meet the requirements of the job market

Having the possibility to participate to **double or triple degree programmes**

Benefiting from a **student based teaching methodology**: disciplines are practical and open to the labour market. The teaching methods used are lectures, discussions in small groups of students, placements, final assignment... In the Master degrees, the methods used are inductive: from case analysis to theoretical justification; an alternation of theory - practice, research missions with a strong link to industries and universities, optional course units and final assignment for students in the last study year

Attending **degree programmes open to the world**: HELMo has signed more than 100 bilateral agreements with institutions of Higher Education in Europe and around the world

Being in an institution which is a **member of thematic networks** (Businet, Comenius Association, EAIE, EASSW, ERACON, FESET, NIBS)

Being allowed to attend courses and lectures in **other institutions** of higher Education

Doing internship abroad



Life at HELMO is...

Participating to **research and innovation projects**

Benefiting from **pedagogical tools and infrastructures, always improved**: new campuses, computer rooms, Wi-fi, e-learning

Being accompanied by a **students' department** and/or an **Educational and social assistance** (workshops, stress management, tutoring...)

Joining a students' association, parties, cultural events, sports association and **a lot of projects** in the different departments

Having support from an **international office** for all Erasmus exchanges, internships abroad, intercultural meetings, ...

Always **Lifelong learning**



DESTINATION



LIEGE

Coming to HELMo is discovering a very rich and diversified region close to Germany, the Netherlands, France and Luxemburg. Liège has long been described as being one of three sisters, together with Aachen (in Germany) and Maastricht (in the Netherlands).

Studying in Liège is also discovering a city with a rich historical, cultural and industrial past. It is the largest city of the French-speaking community in Belgium and is the economic capital of the Walloon Region. Called "la Cité Ardente" with reference to the independent spirit of its inhabitants, Liège has a lot of museums and prestigious cultural institutions like the Orchestre Philharmonique Royal de Liège, The Opéra Royal de Wallonie or the new Theatre, the Reflektor for music concerts...

As a student town, Liège has an important social life and is crawling with pubs, cinemas, restaurants, sports centres, etc...

From being an old steel-manufacturing-based town, it has successfully undergone a transition into developing high-technology industries and services: with some significant development poles in sectors such as space, biotechnology, transport and logistics...

But the most significant point is that Liège is a warm open-minded town, thanks to its geographical position mixing French, Flemish, Dutch and German cultures.



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“LIÈGE-BASTOGNE-LIÈGE”

OPEN-MINDED
CITY

LE CARRÉ

FOLKLORE
(TCHANCHÈS-NANÈS)

LIVELY
CITY

ST TORÈ

ECONOMIC CAPITAL
OF WALLONIA

VERY RICH AND
DIVERSIFIED REGION
CLOSE TO GERMANY
AND THE NETHERLANDS

WAFFLES

SIROP

MULTICULTURAL
CITY



BEER

STUDENTS' LIFE

AIRPORT

BOULETS-FRITES

THEATER

OPERA

SPACE CENTER

LOGISTICS

JEUDREDI

WITH A RICH
HISTORICAL, CULTURAL
AND INDUSTRIAL PAST

CHOCOLATE

STANDARD DE LIÈGE

LES FRÈRES DARDENNE
(MOVIE MAKERS)

BIOTECHNOLOGY

MIX OF FRENCH, FLEMISH,
DUTCH AND GERMAN
CULTURES

MUSIC PLAYERS

DESTINATION



THE INTERNATIONAL RELATIONS OFFICE AT HELMO

The main international Relations office is managed by :



Julie Guiot
(Head of the department)
j.guiot@helmo.be



Manon Habay
(incoming and outgoing students officer)
m.habay@helmo.be
+32 4 220 61 07

It works in close collaboration with the international coordinators from the different study programmes.

One of the most important aims of the international office is to increase the number of exchange students (outgoing and incoming).

Therefore, incoming students are very welcome to HELMO:

Compulsory welcome days at the beginning of each semester (in September and in January) – social, cultural, linguistic and integration activities are offered during these days. Students usually meet the international coordinator of the study programmes, they also have the opportunity to discover the department and to meet other Erasmus students. They have to attend a conference about the Belgian Culture and habits.



A **module called “Belgian Culture and Heritage”**: It gives incoming students the opportunity to visit Belgian towns, to taste traditional Belgian meals, to discover regional product makers. It can be included in the Learning agreement for 2 ECTS.

French as a foreign language

As most of the study programmes are taught in French, we recommend students to have a very good level in French; in some departments, the B1 level is required.

Therefore, in order to help the incoming students improve it, HELMo offers a French course (5ECTS) during the autumn semester. And during the spring semester, HELMo has a partnership with ISLV - University of Liège (5 ECTS).

However, the business department offers a 30 ECTS programme in English ONLY during the autumn semester.

Academic recognition: HELMo adheres to the fundamental aims of the Bologna process, and to transcribe the records obtained abroad, HELMo uses the Egracons system (<http://egracons.eu/>).

ESN Team was set up to organize activities for incoming students, to help them during their stay in Liège;



The ESN will:

- | | |
|--|--|
| Pick up students on arrival | Help students find accommodation |
| Advise about events at HELMo, in Liege or even in Belgium (concerts,...) | Organize sport, cultural and social activities |
| Do not hesitate to check our facebook page | |



Further information can be found on <https://www.helmo.be/CMS/Profils/International/EN/Students-IN.aspx>.

INDUSTRIAL ENGINEER DEPARTMENT

**“Knowing to Serve”
For a human-concerned technology**



•• HISTORICAL BACKGROUND

The HELMo Gramme Institute located in Liège which recently celebrated its 110th anniversary was founded in 1906 by a Jesuit father. As a major department of the HELMo University College with circa 500 students, it is one of the most prominent institutions which grants the industrial engineer diploma in the French-speaking community of Belgium. Its reputation is based on a challenging level of studies combined with high quality educational mentoring.

HELMo's bachelor and master degrees in industrial engineering sciences are an audacious mix of engineering sciences (mathematics, physics, chemistry), applied sciences (mechanics, electricity, thermodynamics, ...), technical courses (IT's, design and graphic techniques, technology, ...) and soft skills (English, economics, sociology, philosophy, project management, entrepreneurship skills).

This polyvalence is for our graduated engineer an essential asset which allows him, if needed, to bring in his additional value to various problem solving issues and also to redirect his career in another industrial field if requested.

Proximity educational methods based on modern tools allows the student to let his creativity grow with the years. From the very beginning, practical applications, manipulations in the laboratories and group works allow him/her to master the technical reality. Afterwards, projects and two long-term internships give the student the opportunity to immerse him/herself into the day-to-day life of a Belgian or foreign company.

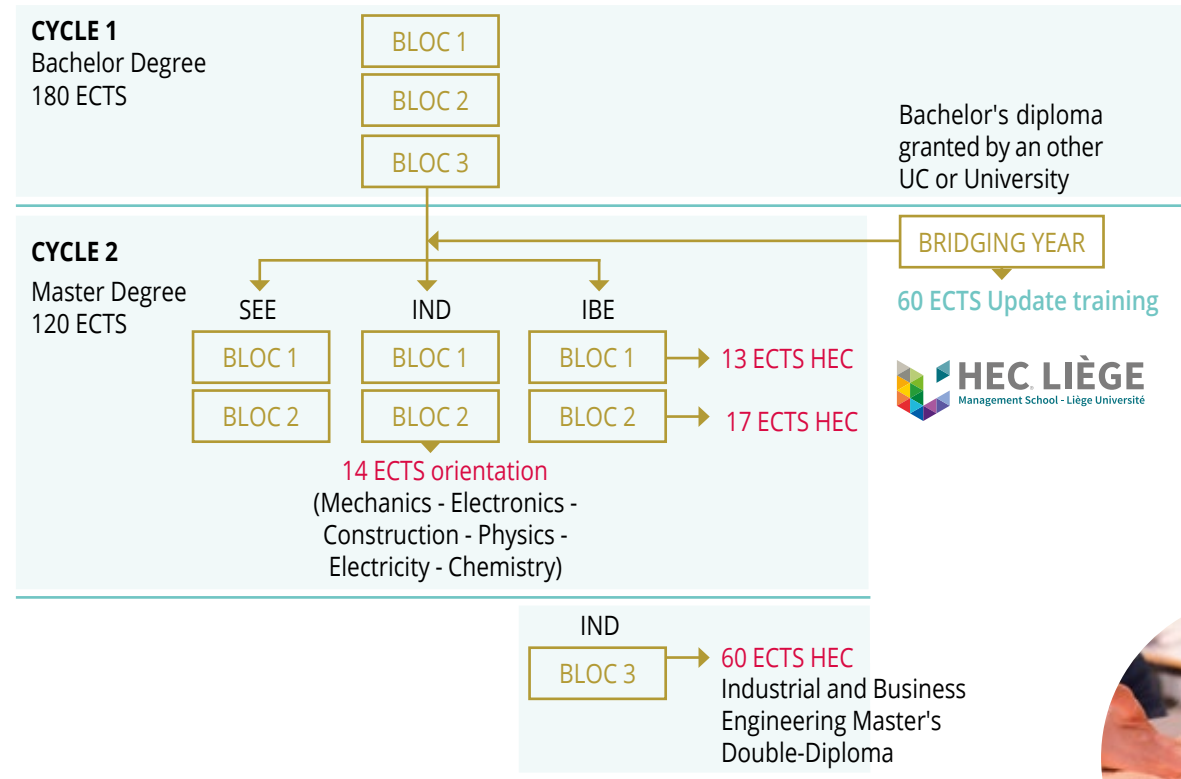




••• AT THE LEADING EDGE OF TECHNOLOGY

Industry is moving, evolving. Each manager must be surrounded by qualified, versatile and skilled key partners able to manage human complexity and quick technological changes.

In order to achieve these professional outcomes, HELMo Gramme's training is being organized in two cycles divided over 5 years:



STUDY PROGRAMMES



Bachelor

Training

These six preparatory semesters already make it possible to approach various areas of the industrial engineers' many-sided activity:

- interdisciplinarity because in the company, where the industrial engineer has to play a part of general coordination, human relationships and management are of the utmost importance,
- sciences and applied mathematics which allow to display technical creativity,
- technical know-how, essentially learning-by-doing ones.

Internship

During semester 5, a first enterprise immersion is organized. This internship lasts six weeks and is designed as an opportunity for each student to get in contact with a technical environment and to experience the complex and moving reality of the working world.

The trainee is also brought to prove his/her flexibility and ability to adapt to various situations, work or projects which will be proposed to him.

Masters

Industrial engineering sciences

This orientation, in direct drive with the industrial world, proposes traditional activities of technical training based on projects-oriented learning as well as management, economy, ethics, ... lectures crowned by an internship (minimum 13 weeks) leading to a final thesis.

A selective international partnership network in Europe (France, Spain, UK, Denmark, Czech Republic...) ensures for student and staff attractive conditions of mobility and collaboration perspectives.

Sustainable Energy Engineering orientation

This recent master has provided since 2012 a critical review on the global problem of energy supplies facing up the shortage of fossil fuels and the rise of their cost use. This academic and professional training takes stock of the most current researches and surveys in the global field of sustainable energy. Its multidisciplinary and transversal approach takes into account the various steps of the energy processing from production up to the optimization of the rational

use procedures and their linkage with social policies. It leads to much in demand career opportunities like energy production manager, energy auditor or consultant, HVAC engineers...

Double-degree - Master in Industrial & Business Engineering

Result of a close collaboration between HELMo Gramme and HEC Management School Liège, this double-diploma - unique in Belgium - allows the students to articulate in a very coherent way the skills of both trainings and to obtain two engineering degrees after only three years of Master's degree. This complementarity meets the expectations of the professional world in search of high-level collaborators having at hand robust technological, scientific and managerial skills.

The training is based on a special program fitted out from the 1st year of each Master's degree.

INCOMING STUDENTS



HELMo Gramme is registered in the European Erasmus+ and thus participates in academic student exchanges with about ten partner institutions (France, Switzerland, Spain, Denmark, Estonia, Italy, Czech Republic, South Korea, Brazil...).

International students are welcome for a one-term or one-year academic exchange during the final year of the Bachelor's degree as well as at the Master's level. Continuous interaction with the business world and project-based learning are assets which make our training very attractive on the international scene. Increasing attention is being paid to the development of courses and modules in English both in the technical field of engineering sciences and in soft skills. For further information on the latter, please contact the international coordination whose details are given below.



The possibility of doing an internship in some of the best rated transnational companies in their field of expertise (aeronautics, chemistry, construction, mechanics, etc.) is also possible within our network of partner companies in Belgium. Students interested in such an internship must provide us with a certificate of their results as well as a letter of motivation and an updated curriculum vitae.

Research center

Research has always been part of the activities at HELMo's industrial engineering department. Therefore, most of its young researchers hired by HELMo's research center are coming from the Gramme Institute's benches promoting creation of innovative, sustainable and supportive devices in many and varied domains such as biomedical technology, robotics or even fashion clothing.

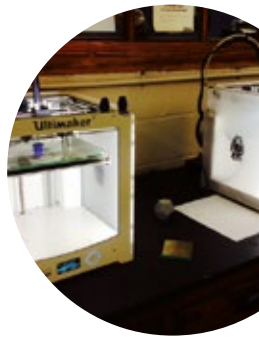
Courses given in English

Autumn Semester 2019-20

	ECT
INDUSTRIAL ENGINEERING	14
Energy Conversion 2	2
Physicochemicals project	3
Web Technologies	2
Telecommunication project	2
Optimization	2
Nuclear Engineering	3
SUSTAINABLE ENERGY ENGINEERING	14
Sustainable Industrial Chemistry	4
Raw Materials & Circular economy	2
Electrical, hybrids & nonconventional propelling systems ..	2
Sustainable Energy	3
Sustainable Energy oriented projects	3
SOFT SKILLS	10
Leadership Skills	2
Philosophy of technology	2
Marketing	2
Entrepreneurship	4
French for Beginners	5
Belgian Culture and Heritage	2

TOTAL 45

On specific request, arrangements can be made for students wishing to receive tutoring and assessment in English as part of teaching activities given in French.

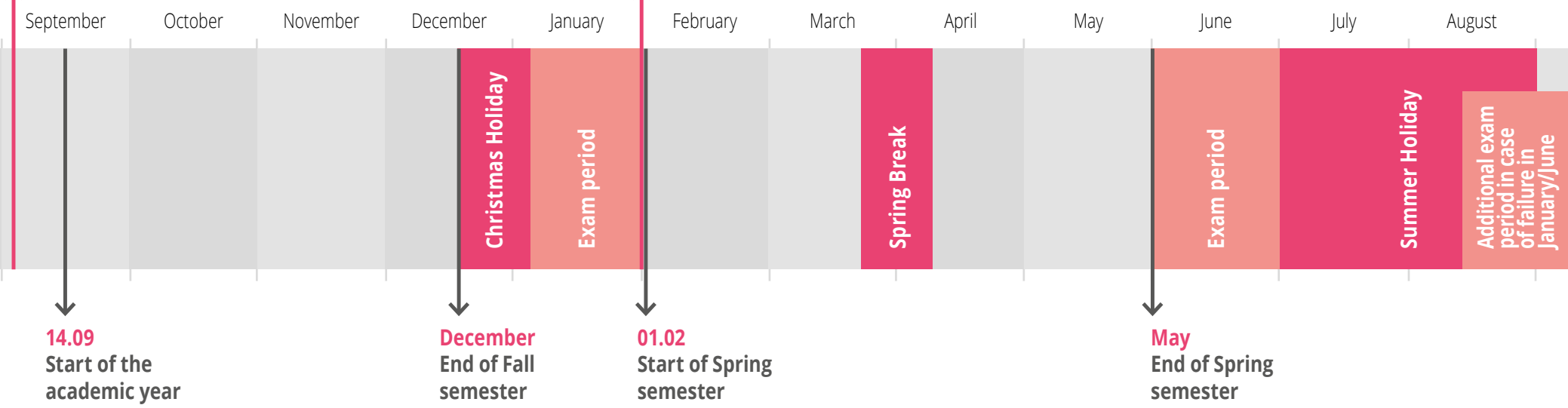


PRACTICAL INFORMATION

ACADEMIC CALENDAR

Autumn
Welcome days

Spring
Welcome days



APPLICATION

APPLICATION DEADLINES:

> 1ST JUNE FOR THE FALL SEMESTER

> 1ST DECEMBER FOR THE SPRING SEMESTER

The **nomination** (Name + last name + study field + study period) **must be sent** by the home university to the international departmental coordinator (see contact persons on the back cover).

After receiving the nomination, he/she will **send the Erasmus application form**. It has to be filled in and sent back to him/her.

An **acceptance letter** will be afterwards delivered (within three weeks).

HELMo **requires the Learning Agreement (LA)** before the beginning of the Erasmus stay. This has to be approved by the departmental coordinators in both institutions.



OTHER INFORMATION



1. ID, PASSPORT, VISA

It is recommended to check the website of the Belgian Diplomacy: www.diplomatie.be.

EU students need to have a valid ID or passport (check which one you need to travel to Belgium), and, depending on your nationality, home country and country of birth, a temporary stay permit.

NON EU Students need to contact the Belgian's embassy in their country, have to prove they have sufficient incomes for their stay in Belgium. They also need a copy of criminal record and a medical certificate.

2. HEALTH INSURANCE

EU students need the European health insurance card (the blue one) to be covered by the social security in Belgium.

Non EU students need to contact their home health insurance to check what kind of documents they need in Belgium in order to be covered by a social fund.

3. ACCOMMODATION

HELMo does not provide any accommodation of its own. However, the ESN will help Erasmus students find something suitable.

Accommodation for students in Liège is usually rooms or small flats in private houses (called « Kots ») with a private bathroom and a kitchen corner with furniture, or rooms in campus dormitories with shared bathroom and kitchen.

For further information, do not hesitate to check the following pages:
<https://www.helmo.be/CMS/Profils/International/EN/Students-IN/Practical-information.aspx#doc>.

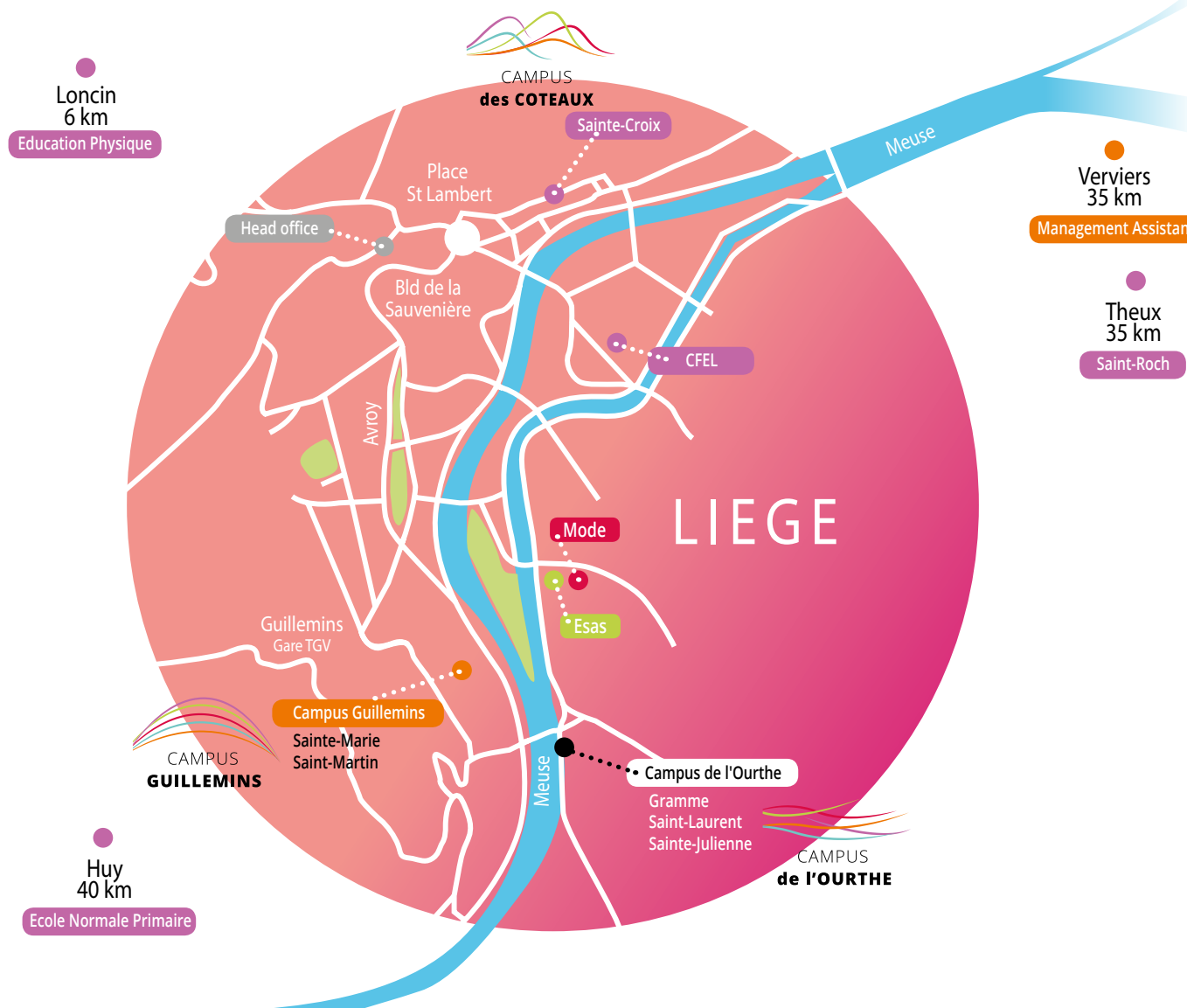
Students coming for an international week have to contact the organizer to find a weekly accommodation

HELMo IS ALSO

Mont Saint-Martin, 45 - 4000 LIEGE
Tél.: 04/222 22 00 - Fax: 04/221 60 43
E-mail: info@helmo.be
www.helmo.be

HELMo
Haute Ecole
Libre Mosane

HELMo is also 11 institutes in 5 cities



This brochure was designed and made by the HELMo Communication Service, in association with the International Relations Office.

Chief-Editor:

Nicolas CHARLIER,
Communication Service Director,
Mont Saint-Martin, 45 in 4000 LIEGE

Updates:

Nicolas CHARLIER, Julie Guiot, Manon Habay and Martine Wilmots

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Legal notes:

The HELMo Haute Ecole pays particular attention to the writing of this document. The HELMo Haute Ecole however does not guarantee the accuracy of the information. The reader must also be aware that this information is subject to changes, without prior notice.

The HELMo brochures are printed on paper made of recycled fibres and wood fibres from sustainable forest management.

HELMo is a member of:



and +40 study programmes

Sectors	Fields of study	Programmes	Code	Campus	Departments	
Human and social sciences	Political and Social Sciences	Social worker	0923	HELMo ESAS	●	
		Social Engineering and Action	0923	HELMo ESAS	●	
	Legal sciences and criminology	Insurance	0412	HELMo Campus Guillemins	●	
		Law	0421	HELMo Campus Guillemins	●	
	Economic and management sciences	Management Assistant (Liège)	0415	HELMo Campus Guillemins	●	
		Management Assistant (Verviers)	0415	HELMo Verviers	●	
		International business	0416	HELMo Campus Guillemins	●	
		Accounting	0411	HELMo Campus Guillemins	●	
		International Cooperation	0320	HELMo Campus Guillemins + HEPL	●	
		Public Management	0413	HELMo Campus Guillemins + HEPL	●	
		Marketing	0414	HELMo Campus Guillemins	●	
	Psychology and educational sciences	Preprimary Teacher	011	HELMo Sainte-Croix	●	
		Primary Teacher (Liège)	011	HELMo Sainte-Croix	●	
		Primary Teacher (Huy)	011	HELMo Huy	●	
		Primary Teacher (Theux)	011	HELMo Saint-Roch	●	
		Lower secondary education teacher in French as a mother tongue and French as a foreign language	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in French and religion	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in English + Dutch or English + German	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in Mathematics	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in Sciences	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in Human sciences	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in health, social and home economics	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in French as a foreign language	011	HELMo Sainte-Croix	●	
		Lower secondary education teacher in Physical education	011	HELMo Loncin	●	
		Youth worker specialised	031	HELMo CFEL	●	
		Youth worker specialised in social and sports activities	031	HELMo ESAS	●	
		Specialised bachelor in educator in school environments	011	HELMo CFEL +HECH	●	
	Specialised bachelor in teaching children with special needs	011	HELMo Sainte-Croix	●		
	Health	Biomedical and Pharmaceutical sciences	Medical laboratory technologist	0914	HELMo Sainte-Julienne	●
			Midwife	0913	HELMo Sainte-Julienne	●
		Public Health sciences	Nurses responsible for general care	0913	HELMo Sainte-Julienne	●
			Specialised bachelor in paediatrics	0913	HELMo Sainte-Julienne	●
Specialised bachelor in mental Health			0913	HELMo Sainte-Julienne	●	
Specialised bachelor in intensive care and emergency medical aid			0913	HELMo Sainte-Julienne	●	
Motricity sciences	Specialised bachelor in psychomotility	0922	HELMo Sainte-Julienne	●		
Sciences and Techniques	Sciences	Business Informatics	0613	HELMo Campus Guillemins	●	
		Computing and systems : Automatic	0613	HELMo Saint-Laurent	●	
		Computing and systems : Systems security	0613	HELMo Campus Guillemins	●	
		Robotics	0613	HELMo Saint-Laurent	●	
	Engineering and technology	Industrial engineering	07	HELMo Gramme	●	
		Industrial engineering: sustainable Energy engineering	0712	HELMo Gramme	●	
		Textile - fashion techniques	0212	HELMo Mode	●	
		Techniques and sales	071	HELMo Saint-Laurent	●	



Any question? Need more? Don't hesitate! Come and visit us! 



Olivier Praz
International coordinator
o.praz@helmo.be

HELMo Gramme
Quai du Condroz, 28
4031 Angleur
Belgium
+32 (0)4 340 34 30

helmo.be



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