

**At Mons - 180 credits - 3 years - Day schedule - In French**

## INGM1BA - Introduction

### Introduction

#### Introduction

The Bachelor in Business Engineering programme combines management studies with quantitative methods and business informatics. It also provides students with a broad knowledge base in economics, human science, law and two foreign languages.

This Bachelor's degree aims to facilitate the acquisition of transferable skills specific to the university, such as rigorous, methodical and critical analysis, the ability to work independently and as part of a team, and communication and creativity skills.

This Bachelor's programme fully embraces a long-term vision of our society, in terms of both sustainable development and digital transformation.

By the end of the first cycle, you will have acquired:

- a multidisciplinary background, with a cross-disciplinary approach to management functions;
- skills geared towards quantitative methods and business informatics but also data analysis and technologies, with a vision of a sustainable society;
- a scientific approach and a socially responsible mindset.

#### Your profile

When you embark on a business engineering course, it is most important that you have had a good general education. Having opted for a strong mathematics bias in the last two years of secondary school could be an advantage. An interest in project management, IT systems design, data management, logistics or sustainable development are excellent reasons to take up the challenge.

#### Your future job

Business Engineering graduates make a career for themselves in many sectors, including industry, banking and insurance, auditing and large-scale retail, in private companies, public organisations, SMEs, multinationals and consultancy firms.

They hold positions of responsibility, such as project manager, data analyst/scientist, IT consultant, sales manager, purchasing manager, logistics manager, management controller or financial analyst.

#### Your programme

The Bachelor's programme offers you:

- gradual acquisition of the knowledge you need to take up a "decision-maker" role in a company;
- courses focused on quantitative methods and business informatics, and also on data analysis and technologies;
- the ability to work independently and as part of a team;
- communication and creativity skills;
- language training (English and Dutch/Spanish) throughout the degree course as well as support (in English or Dutch) linked to the internship.

From the second year onwards, students can undertake a student mobility programme with the Haute Ecole Louvain en Hainaut (HELHa) and, during the second and third year, can opt for a technology course in electromechanics or biochemistry. Access to this mobility programme, called i<sup>2</sup>, is by [application](#).

#### Your parcours

This Bachelor's degree gives access to various Master's programmes, including the Master in Business Engineering.

Students who have taken the electromechanics or biochemistry technology option will be able to pursue their studies and obtain 25 extra credits at HELHa during their Master's degree in Business Engineering.

Once they have completed this specific study path, they will have access to a tailored Master's degree in Industrial Engineering, which they can obtain in one year after their Master in Business Engineering. It is therefore possible to obtain two degrees (Master in Business Engineering and Master in Industrial Engineering) after six years of study ([www.icarre.eu](http://www.icarre.eu)).

## INGM1BA - Teaching profile

### Learning outcomes

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

The profile of Bachelor in Business Engineering graduates is set out in the **Louvain School of Management (LSM) competency framework**. This framework centres around the following three skills: acquiring a knowledge base, applying a scientific approach and adopting a socially responsible mindset.

- 1.1 Demonstrate the ability to reason independently and adopt a considered and critical approach to knowledge (academic and common sense).
- 1.2 Consider ethical and humanistic values, integrity, the laws and conventions, civic solidarity and sustainable development in all interactions with the community.
- 1.3 Analyse a situation responsibly, taking into account the economic, social and environmental impact on the various stakeholders.
- 2.
- Acquire a knowledge base
- Actively acquire a knowledge base in different subjects (management, human science, economics, law, quantitative methods) that are essential for analysing issues in the various fields of management.
- 2.1 Understand the basic concepts and theories in each of the fields of management and economics.
- 2.2 Acquire a knowledge base in human science and law.
- 2.3 Acquire a knowledge base in quantitative, IT and digital methods.
- 2.4 Apply knowledge gained from different subjects to solve a simple but concrete management problem.
- 3.
- Apply a scientific approach
- Use a scientific approach to analyse concrete management problems and situations.
- 3.1 Understand and selectively use scientific texts and works in French and English.
- 3.2 Apply clear and structured analytical reasoning, conceptual frameworks and science-based models to describe and analyse a simple but concrete problem and offer a solution.
- 3.3 With the help of dedicated software tools, collate, select and analyse relevant information using basic statistical and data analysis methods.
- 3.4 Analyse and interpret results or proposals, and provide a well-argued critique, for a simple but concrete management problem.
- 3.5
- Demonstrate rigour and discernment (validity and relevance) in the collation of information sources, and precision in their referencing.
- 4.
- Embrace change
- Adopt a positive approach to change in assignments and projects carried out individually or in groups.
- 4.1 Identify opportunities for innovation and be creative in putting forward useful and original ideas.
- 4.2 Identify situations of resistance to change and overcome them.
- 4.3 Be part of a collective change dynamic.
- 4.4
- Identify opportunities linked to the digital transformation of companies, sustainable development and organisational changes in the workplace and suggest solutions to management problems based on ESG criteria.
- 5.
- Adopt a multidisciplinary and professional mindset
- Compare different motives and rationales for action to understand a concrete problem a company is facing.
- 5.1 Understand the internal workings of a company of limited size and complexity.
- 5.2 Understand these workings, place them in their socio-economic context and identify the interdisciplinary issues.
- 5.3 Combine different areas of knowledge (apply concepts from different fields and compare different rationales for action) to understand a concrete problem of a company or organisation of limited size and complexity.
- 5.4 Use software from different fields to solve a management problem.
- 6.
- Become a team player
- Become a team member and player.
- 6.1 Know and understand the principles of collaborative learning.
- 6.2 Recognize and take into account the different points of view of team members.
- 6.3 Manage group relations in a joint project.
- 7.
- Manage a project
- Organise and complete a project, taking into account the pre-defined objectives and the constraints of the project environment.
- 7.1 Organise the process: working as a team, and with consideration for the pre-defined objectives, plan and develop all the stages of a project and commit to it collectively, having allocated the tasks.
- 7.2 Share information and expertise to help progress the project and contribute to the team's success with a view to effectively achieving the objective set.
- 8.
- Communicate
- Communicate and interact effectively in French and two foreign languages.
- 8.1 With the target audience in mind, communicate information, ideas, solutions and conclusions with written and oral fluency and in a clear, structured and well-argued manner.
- 8.2
- For two foreign languages\* (English and Dutch or Spanish): demonstrate written and spoken fluency and the ability to communicate clearly, coherently, fluently and in a well-argued fashion on general and management-related topics.



- 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

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## o Content:

### o Law

- MDROI1105 Sources and Principles of Law

o Social Science

o MSHUM1118	Study Skills Seminar	Jean-Luc Depotte	
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○ Second Language

The student chooses and keeps the same second language for the entire bachelor cycle.

⌘ Dutch

Learning unit is MNEER1121 Dutch 1.

Student will decide whether or not to register for the learning unit MNEER1119 Dutch 1 LSM beginner.

○ MNEER1121	Dutch 1	Erika Copriau Bruno Michiels (coord.) Daniel Schoemans	SL [q1+q2] [30h+30h] [5 Credits]	X		
⌘ MNEER1119	Dutch 1 for LSM Beginners	Daniel Schoemans (coord.)	SL [q1+q2] [60h] [5 Credits]	X		





## **The programme's courses and learning outcomes**

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**o Social Science**

○ MSHUM1118	Study Skills Seminar	Jean-Luc Depotte	EN [q1+q2] [15h +30h] [5 Credits]
○ MSHUM1122	Ethics and CSR	Vincent Truyens	EN [q2] [30h +10h] [5 Credits]

**o Languages**

○ MANGL1120	English 1	Erika Copriau Bruno Michiels Guy Monfort (coord.) Daniel Schoemans	EN [q1+q2] [30h +30h] [5 Credits]
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**o Second Language**

**INGM1BA - 2ND ANNUAL UNIT**

- 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...)

**o Content:****o Law**

○ MDROI1210	Business Law ■	Werner Derycke	(FR) [q1] [30h +0h] [5 Credits] 🌐
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**o Economics**

○ MECON1211	Macroeconomics ■	Nathalie Gilson	(FR) [q2] [30h +10h] [5 Credits] 🌐
○ MECON1212	Microeconomics ■	Patrick Scarmure	(FR) [q1] [45h +20h] [5 Credits] 🌐

**o Management**

○ MGEST1201	Corporate Strategy	Alain Vas	(FR) [q1] [30h +10h] [5 Credits] 🌐
○ MGEST1219	Finance	Catherine D'Hondt Isabelle Platten	(FR) [q2] [45h +20h] [5 Credits] 🌐
○ MGEST1222	Production Management	Stefan Creemers	(FR) [q2] [30h +10h] [5 Credits] 🌐

**o Quantitative Methods**

○ MQANT1221	Statistical Inference ■	Rudy De Winne	(FR) [q2] [45h +20h] [5 Credits] 🌐
○ MQANT1227	Mathematics for Management 2 ■	Jean-Sébastien Tancrez	(FR) [q1] [45h +20h] [5 Credits] 🌐

**o Science and Technology**

Three tracks are available: the computer management track, the technological track in biochemistry and the technological track in electromechanics. These last 2 tracks, organized in partnership with the HELHa, are accessible upon application and confirmed after achievement of the 1st annual unit in one academic year (application form: <https://intranet.uclouvain.be/fr/myucl/sites/mons/parcours-i%26sup2%3B-candidature.html>).

**⊗ Parcours informatique de gestion**

○ MINFO1201	Programming and Algorithms ■	François Fouss	(FR) [q2] [45h +20h] [5 Credits] 🌐
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○ MTECH1201	Industrial Technologies	Laurence Baclin Christine Dhaeyer David Michel Nicolas Velings	ES [q1] [30h +10h] [5 Credits]
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### ⌘ Parcours technologique biochimie

○ MHELH1200	Sciences du bioingénieur		ES [q2] [72h] [5 Credits]
○ MHELH1201	Chimie et sciences de l'industrie		ES [q1+q2] [60h] [5 Credits]

### ⌘ Parcours technologique électromécanique

○ MHELH1211	Sciences de l'ingénieur		ES [q2] [72h] [5 Credits]
○ MHELH1212	Fluide et énergie		ES [q2] [64h] [5 Credits]

## o Languages

○ MANG1235	English 2 🇬🇧	Jessica Degroote Céline Gouverneur Caroline Lambert Daniel Schoemans Quentin Zèques (coord.)	ES [q1+q2] [0h +60h] [5 Credits]
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### o Second Language

The student chooses and keeps the same second language for the entire bachelor cycle.

#### ⌘ Dutch

In the first annual block, the default learning unit is MNEER1121 Dutch 1.

At the end of a placement test, the teacher will decide whether or not to register for the learning unit MNEER1119 Dutch 1 LSM beginner.

○ MNEER1236	Dutch 2 🇳🇱	Erika Copriau (coord.) Bruno Michiels	ES [q1+q2] [0h +60h] [5 Credits]
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#### ⌘ Spanish

○ MESPA1237	Spanish 2 🇪🇸	Juan Francisco Hernandez Rodriguez (coord.)	ES [q1+q2] [0h +45h] [5 Credits]
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○ MINFO1301	Data Management	François Fouss	FS [q1] [30h] +15h] [5 Credits]
○ MINFO1302	Coding Project	Daniele Catanzaro	FS [q1] [30h] +15h] [6 Credits]
○ MQANT1328	Operational Research	Jean-Sébastien Tancrez	FS [q2] [30h] +15h] [5 Credits]
○ MSHUM1303	Organization and Social Change Seminar	Julie Solbreux	FS [q2] [15h] +0h] [2 Credits]

### ⌘ Parcours technologique biochimie

○ MHELH1301	De la molécule au vivant		FS [q2] [64h] [5 Credits]
○ MHELH1302	Fondamentaux de chimie analytique		FS [q1+q2] [45h] [7 Credits]
○ MHELH1303	Approfondissement des connaissances de la matière		FS [q2] [102h] [8 Credits]
○ MINFO1201	Programming and Algorithms	François Fouss	FS [q2] [45h] +20h] [5 Credits]

### ⌘ Parcours technologique électromécanique

○ MHELH1311	Mécatronique		FS [q1] [54h] [5 Credits]
○ MHELH1312	Fluide Avant 2024-2025 : Mécanique thermo appliquée		FS [q2] [80h] [8 Credits]
○ MHELH1313	Automatique		FS [q2] [75h] [7 Credits]
○ MINFO1201	Programming and Algorithms	François Fouss	FS [q2] [45h] +20h] [5 Credits]

### ○ Languages

○ MANG1339	English 3	Jessica Degroote (coord.) Quentin Zèques	FS [q1+q2] [0h] +45h] [4 Credits]
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### ○ Second Language

The student chooses and keeps the same second language for the entire bachelor cycle.

#### ⌘ Dutch

In the first annual block, the default learning unit is MNEER1121 Dutch 1.

At the end of a placement test, the teacher will decide whether or not to register for the learning unit MNEER1119 Dutch 1 LSM beginner.

○ MNEER1341	Dutch 3	Erika Copriau (coord.) Bruno Michiels	FS [q1+q2] [0h] +45h] [4 Credits]
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#### ⌘ Spanish

○ MESPA1340	Spanish 3	Juan Francisco Hernandez Rodriguez (coord.) Fernando Juan San Basilio Pardo	
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## INGM1BA - Information

### Access Requirements

*Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.*

*The admission requirements must be met prior to enrolment in the University.*

***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](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

### General access requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium, the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

#### Note:

Requests for equivalence must be submitted to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

### Specific access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are not assimilated to Belgian nationals is subject to the following criteria:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- Candidates, whatever their nationality, with a secondary school diploma **from a country outside the European Union**, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences). A non-successful year will not be taken into consideration.



- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the [DAES](#) or a certificate of successful completion.

, the examination boards accredited, the knowledge and skills that students have obtained through their



- [Master \[120\] in Management](#) and [Master \[60\] in Management](#) (Mons campus)
- [Master \[120\] in Management](#) and [Master \[60\] in Management](#) (Louvain-la-Neuve campus)

Bachelor in Business Engineering graduates also have access to the Master's courses run by the Faculty of Economic, Social and Political Sciences and other faculties, provided they meet the programme requirements:

- [Master \[120\] in Economics: General](#) and [Master \[60\] in Economics : General](#)
- [Master \[120\] in Economics: Econometrics](#)

There are a number of UCLouvain Master's programmes (generally stand-alone) that are widely accessible to UCLouvain FUCaM Mons Bachelor's graduates, including:

- [Master \[120\] in Population and Development Studies](#) (direct access for all Bachelor's graduates),
- [Master \[120\] in European Studies](#) (open to all Bachelor's graduates with a minor in European Studies),
- [Master \[120\] in Ethics](#) (open to all Bachelor's graduates, subject to additional course requirements).

## Contacts

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### Curriculum Management

#### Faculty

Structure entity	SSH/LSM
Denomination	Louvain School of Management ( <a href="#">LSM</a> )
Sector	Human Sciences ( <a href="#">SSH</a> )
Acronym	LSM
Postal address	Place des Doyens 1 - bte L2.01.01 1348 Louvain-la-Neuve
Website	<a href="http://www.uclouvain.be/lsm">http://www.uclouvain.be/lsm</a>

#### Mandate(s)

- Dean : Matthieu de Nanteuil
- Administrative director : Helena Torres

#### Commission(s) of programme

- Commission d'enseignement de la Louvain School of management ([CLSM](#))

Academic supervisor: [Patrick Scarmure](#)

#### Other academic Supervisor(s)

- [Ingrid Poncin](#)

#### Jury

- President of the jury: [Patrick Scarmure](#)
- Jury secretary: [Natacha Gilson](#)

#### Useful Contact(s)

- Information for future students (Nicolas Hurtado de Jesus - tel. +32 (0)65 323 327): [info-mons@uclouvain.be](mailto:info-mons@uclouvain.be)
- Studies management officer: [Magaly Duquesne](#)
- Vice-Dean LSM Mons: [Ingrid Poncin](#)
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