UCLouvain

INGM1BA

2024 - 2025

Bachelor : Business Engineering

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 i², 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).

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.

Social Science

				Year 1	2	3
MSHUM1118	Study Skills Seminar	Jean-Luc Depotte	FR [q1+q2] [15h+30h] [5 Credits]	x		
MSHUM1122	Ethics and CSR	Vincent Truyens	FR [q2] [30h+10h] [5 Credits]	x		
MSHUM1301	Questions de sciences religieuses	Stanislas Deprez	FR [q1] [15h] [2 Credits]			x

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%2m q 6 0.be/fr/myucl/ sites/mons/parcours-i

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:

-

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.

Detailed programme per annual block

INGM1BA - 1ST ANNUAL UNIT

Social Science

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

Languages

MANGL1120	English 1	Erika Copriau Bruno Michiels Guy Monfort (coord.) Daniel Schoemans Sabine Vandersmissen (compensates Guy Monfort) Marine Volpe (coord.)	EN [q1+q2] [30h +30h] [5 Credits]

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.

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

Spanish

MESPA1122	Spanish 1	Juan Francisco Hernandez Rodriguez (coord.)	ES [q1+q2] [30h +30h] [5 Credits]

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...)

Content:

Law

MDROI1210	Business Law	Werner Derycke	FR [q1] [30h +0h] [5 Credits]

Economics

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

Management

MGEST1201	Corporate Strategy	Alain Vas	FR [q1] [30h +10h] [5 Credits]
MGEST1219	Finance	Catherine D'Hondt Isabelle Platter	FR [q2] [45h +20h] [5 Credits]
MGEST1222	Production Management Statistical Inference	Stefan Creemers	FR [q2] [30h +10h] [5 Credits]

Quantitative Methods

MQANT1221	Statistical Inference	

MTECH1201	Industrial Technologies	Laurence Baclin Christine Dhaeyer David Michel Nicolas Velings	

INGM1BA - 3RD 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]t0ess Engineering

MINFO1301	Data Management	François Fouss	FR [q1] [30h +15h] [5 Credits]
MINFO1302	Coding Project	Daniele Catanzaro	EN [q1] [30h +15h] [6 Credits]
MQANT1328	Operational Research	Jean-Sébastien Tancrez	FR [q2] [30h +15h] [5 Credits]
MSHUM1303	Organization and Social Change Seminar	Julie Solbreux	FR [q2] [15h +0h] [2 Credits]

• For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your

- 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

Curriculum Management

Faculty