



## INTB1BA - Introduction

### Introduction

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Completing a bachelor's degree in business engineering in a trilingual French-English-Dutch programme is an asset in a globalised professional world, and opens the door to positions requiring a command of Dutch, English and French.

The UCLouvain Saint-Louis - Bruxelles campus offers a trilingual French-English-Dutch business engineering programme. All courses take place on the Saint-Louis - Bruxelles campus in the centre of Brussels (near Botanique and Rogier metro stations).

Studies in business engineering mainly combine courses in economics and management with courses in the sciences (quantitative methods, physics, chemistry and technology).

Management studies are aimed at informing decision-making within companies (or private or public organisations), and are at the heart of the programme.

Areas such as financial analysis, marketing analysis, production management, human resources management and strategic analysis are covered. These subjects may be supported by a solid background in quantitative methods (mathematics and statistics).

The programme is rounded off with a good introduction to economic analysis.

Management decisions and company performance are inevitably influenced by the economic environment. Understanding this environment and how it affects a company is therefore essential.

Science and technology courses are designed to enable students to understand technological issues and interact with company specialists in these fields.

In the first cycle, the programme includes courses in languages, law and the humanities.

Students are gradually prepared to take on managerial or consultancy roles in a company or a private or public institution.

#### Your profile

The bachelor's degree in business engineering is for you if...

- you have a good command of English and Dutch
- you have a solid general education (mathematics, sciences and languages)
- you have taken advanced mathematics during the last two years of secondary education
- you are interested in management, economics and technology
- you are looking for an extensive programme which leads to several different opportunities.

There is no selection process for multilingual programmes.

- However, a written language test is held at the beginning of the year. It is used as a guide to assess language skills and to recommend or advise against a bilingual or trilingual programme.
- In the event of difficulties, there is the option to return to the unilingual programme in French, with language courses.

#### Your future job

The business engineering programme is divided into two cycles: the three-year bachelor's degree and the one- or two-year master's degree. After completing a master's degree in business engineering, there are many and varied career opportunities. Graduates have access to management positions in areas such as:

- the private sector (industry and services): organisation and production management, financial management, marketing, human resources management
- consultancy firms
- public and private, national and international banks and financial institutions
- private institutions, public administration and public companies
- education and academic research

#### Your programme

The programme is made up of courses which can be divided into seven categories:

1. Economics
2. Management
3. Law
4. Computer science and quantitative methods
5. Humanities and social sciences
6. Science and technology
7. Languages

The proportion of the programme devoted to management increases gradually each year.

Proficiency in several languages is essential for a successful career in management. In addition to the compulsory language courses included in the bachelor's programme, the Faculty of Economics, Social and Political Sciences and Communication Saint-Louis in Brussels offers multilingual programmes which allow students to practise a second and even a third language actively. Students take part of their programme in a language other than French, which amounts to four course units per year (two in English and two in Dutch) for the trilingual French/English/Dutch programme.



## INTB1BA - Teaching profile

### Learning outcomes

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#### Specific learning outcomes of students in the trilingual programme:

- The ability to take a course and the oral or written exam in Dutch and in English
- Knowledge of the cultural environment, particularities and ways of thinking associated with the English-speaking and Dutch-speaking worlds
- The ability to conduct research in the field of economics and write a substantial academic paper in English and in Dutch

#### General learning outcomes

By the end of their bachelor's degree in business engineering, students will have acquired:

##### **I. The disciplinary and methodological foundations of economics and management**

- **A practical command of the fundamental concepts and models of economics and management**
- **The basic methodological tools needed for an academic approach to economics and management**
  - The ability to model economic phenomena
  - A command of the foundational fields of management  
*All economics and management CUs in years 1 and 2*
- **The ability to analyse real economic and management issues**  
*Seminar courses in year 2 and year 3, advanced courses in economics and management in year 3*
- **An in-depth understanding of the ethical and political dimensions of economic analysis**  
*In particular, the reflective and interdisciplinary dimensions of year 3 courses in economics*
- **The ability to use mathematics and computer models to support analytical reasoning**
- **The ability to apply mathematical modelling to economic and social issues**
- **The ability to use mathematical and statistical tools to solve economic and management problems**  
*All CUs in mathematics and statistics*
- **The ability to produce abstract reasoning using a formalised language and adopt a critical distance with respect to this process**  
*All CUs in quantitative methods; series of CUs in information technology*

##### **II. A grounding in areas which are complementary to economics and management**

- **A practical command of core knowledge in the human, legal and social sciences which are essential for the analysis of economic and management issues**
- **A knowledge of the major areas of thought underlying the social sciences and humanities**

- **The ability to demonstrate written and oral communication skills in two languages in addition to French, while defending a scholarly argument or presenting a piece of research in accordance with academic ethics**
  - The ability to produce intellectually rigorous personal reasoning, and to defend it both in written and oral forms
  - The ability to carry out university-level research work, notably through the use of statistical data
  - The ability to write a report in accordance with the standards of academic writing
    - LO for the practical work for all economics and management courses; Company management simulation*
  - Oral and written (passive and active) communication skills in English and Dutch, and more specifically, the ability to converse in both everyday and specialised language (in the social sciences and humanities) in these two languages
  - The ability to understand, examine and reproduce a theoretical concept learnt in class in these two languages
    - All CUs in NL and EN in years 1, 2 and 3*
  - A familiarisation with an environment in a language other than their own (stays abroad)
    - ERASMUS exchanges in year 3

## Programme structure

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## INTB1BA Programme

## Detailed programme by subject

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- 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, ...)

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

Year

				Year		
				1	2	3
○ BINGE1132	Mathematics for business engineers II	Thierry Lavendhomme	EB [q2] [45h+22.5h] [5 Credits]	x		
○ BINGE1131	Probability	Nathan Uyttendaele (compensates Cédric Heuchenne)	EB [q2] [30h+22.5h] [4 Credits]	x		
○ BECGE1230	Foundations of business information systems	Wim Laurier	EB [q2] [30h+30h] [4 Credits]		x	
○ BINGE1231	In depth Statistics	Cédric Heuchenne	EB [q1] [45h+22.5h] [5 Credits]		x	
○ BINGE1232	Mathematics for business engineers III	Thierry Lavendhomme	EB [q2] [45h+15h] [5 Credits]		x	
○ BINGE1314	Multivariate Statistics and Econometrics	Mathieu Sauvenier Sébastien Van Bellegem	EB [q1] [45h+15h] [6 Credits]			x
○ BINGE1311	Analysis and Design of Information Systems					

				Year		
				1	2	3
○ BNEER1381	Dutch III 🇳🇱	Isolde Boutsen (coord.) Astrid De Munter (coord.) Barbara Fraipont Pauline Heyvaert	NL [q2] [0h+30h] [4 Credits] 🌐			x

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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.



○ BINGE1132	Mathematics for business engineers II	Thierry Lavendhomme	[q2] [45h +22.5h] [5 Credits]
○ BINGE1131			



o **Science and Technology**

o BINGE1242



## INTB1BA - 3RD ANNUAL UNIT

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- 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, ...)
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- 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](#).
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The bachelor's degree in business engineering allows access to master's degree programmes offered by other schools in the Faculty of Economics, Social and Political Sciences and Communication or by other faculties, subject to compliance with the admission requirements for these programmes.

- [Master \[120\] in Statistics: Biostatistics](#) (Louvain-la-Neuve)
- [Master \[120\] in Business Management](#) (Bruxelles, Louvain-la-Neuve et Mons) (organisé avec l'ICHEC et l'ULB)
- [Master \[120\] in Population and Development Studies](#) (Louvain-la-Neuve)
- [Master \[120\] in European Studies](#) (Louvain-la-Neuve)
- [Master \[120\] in Ethics](#) (Louvain-la-Neuve)

## Contacts

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### Faculty administration

02 211 78 79 - [espo-slb@uclouvain.be](mailto:espo-slb@uclouvain.be)

Office: Ommegang 6 - 2nd floor - office OM 205

Opening hours: Monday to Thursday, 10am to 12.30pm

## Curriculum Management

Faculty

Structure entity

Denomination

Sector

Acronym

Postal address

SSH/ESPB

Faculty of Economics, Social and Political Sciences and Communication Saint-Louis ([ESPB](#))

Human Sciences ([SSH](#))

ESPB

Boulevard du Jardin Botanique 43 - bte

1000 Bruxelles

Mandate(s)

- Dean : Abraham Franssen

Academic supervisor: [Wim Laurier](#)

Jury

- president: [Xavier Wauthy](#)
- secretary: [Tom Truyts](#)
- Third member: [Alexandre Girard](#)

