



INTB1BA

2024 - 2025

## INTB1BA - 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.

### Pursuing a dual bachelor's degree

Our dual bachelor's degrees are one of the special features of UCLouvain Saint-Louis - Bruxelles.

Students can take a second bachelor's degree, in tandem with their main bachelor's degree. This means that they complete their main programme with a minimum of 60 and a maximum of 125 additional credits spread over several years. The additional bachelor's degree can be completed after the main bachelor's degree. A series of courses taken as part of the main programme count towards the additional bachelor's degree and are therefore no longer subject to assessment.

The additional bachelor's degree has the same value as the main bachelor's degree and provides immediate access to the corresponding master's degree.

The following second degrees are available:

- [Bachelor in Law \[Dual Bachelor's degree for the holder of a Bachelor in Business Engineering\]](#)
- [Bachelor in Philosophy \[Dual Bachelor's degree for the holder of a Bachelor in Business Engineering\]](#)

For further information, please contact the faculty administration: [espo-slb@uclouvain.be](mailto:espo-slb@uclouvain.be)

## INTB1BA - Teaching profile

### Learning outcomes

#### 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**  
*List of CUs in philosophy, sociology, political science, etc. CUs in law*
- **The ability to see the connections between the different disciplinary skills and identify their complementarities**  
*Introductory interdisciplinary CUs: Ethics and the economy, Economic history, Economics: interdisciplinary perspectives*

#### **III. A grounding in science**

- **An understanding of the scientific underpinnings of technological processes and information management and their respective implications in a management perspective**
  - An understanding of the fundamental concepts in chemistry and physics
  - Knowledge of basic technologies in the fields of chemistry and physics
  - Experience with the complexity of the processes of industrial chemistry and physics and the ability to discuss these with specialists in the field who are active in a business context  
*CUs in chemistry and physics; CUs in technology*
  - The ability to use computer software and model problems in algorithmic form  
*Series of CUs in the area of information technology*

#### **IV. A grounding in the scientific method**

- **The ability to demonstrate intellectual rigour in their academic work and analytical skills**
- **The ability to critically compare theoretical insights with real situations**
- **The ability to use the knowledge resources available at university, notably by acquiring expertise in the use of the methods and tools of documentary research**
  - The ability to make use of the models presented in lectures to solve real problems  
*LO of the practical work associated with CUs in economics, management and econometrics*
  - The ability to manipulate and present quantitative data to illustrate economic and social phenomena  
*LO of the practical work in statistics, LO of the practical work in Economics II*
  - The ability to maintain a critical distance with respect to theory and to critically review and analyse academic texts

#### **V. High-level written and oral communication skills**

• **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







## 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.

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



○ 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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## INTB1BA - 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 not assimiy r34. 0 -6 T







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](#)

