



INGB1BA - Introduction

Introduction

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The Saint-Louis - Bruxelles campus offers a 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 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

Your future job

INGB1BA - Teaching profile

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

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⊗ Choose one course among the following :

⊗ BECGE1212	Public economics 📄	Gilles Grandjean	FR [q2] [45h+15h] [5 Credits] 🌐			X
⊗ BECGE1215	Public economics 📄	Tom Truyts	FR [q2] [45h+15h] [5 Credits] 🌐			X
⊗ BECGE1218	Public economics 📄	Tom Truyts	FR [q2] [45h+15h] [5 Credits] 🌐			X
⊗ BECGE1313	Environmental Economics 📄	Bertrand Hamaide	FR [q1] [30h] [5 Credits] 🌐			X
⊗ BECGE1233	Game theory 📄	Ana Mauleon	FR [q1] [30h+15h] [5 Credits] 🌐			X
⊗ BDROI1272	Special questions of economic law 📄	Alain Strowel Xavier Wauthy	FR [q2] [30h] [5 Credits] 🌐			X
⊗ BDURA1000						

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 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 [Academic Regulations and Procedures](#).

Prerequisites list

BANGL1291	"Anglais II" has prerequisite(s) BANGL1191
	• BANGL1191 - English I
BANGL1391	"Anglais III" has prerequisite(s) BANGL1291
	• BANGL1291 - English II
BDROI1272	"Questions spéciales de droit économique" has prerequisite(s) BECGE1110 ET BECGE1111
	• BECGE1110 - Economics I
	• BECGE1111 - Economics II
BECGE1210	"Microéconomie" has prerequisite(s) BECGE1110
	• BECGE1110 - Economics I
BECGE1211	"Macroéconomie" has prerequisite(s) BECGE1111
	• BECGE1111 - Economics II
BECGE1212	"Economie publique" has prerequisite(s) BECGE1110
	• BECGE1110 - Economics I
BECGE1213	"Analyse des états financiers" has prerequisite(s) BECGE1112
	• BECGE1112 - Basis of accounting
BECGE1215	"Public economics" has prerequisite(s) BECGE1110
	• BECGE1110 - Economics I
BECGE1218	"Publieke economie" has prerequisite(s) BECGE1110
	• BECGE1110 - Economics I
BECGE1233	"Théorie des jeux" has prerequisite(s) BILquiseeN1.BEC8 BT /F1 8 Tf 1 0 0 -1 0 7.6440000.ionomics I


- BECGE1213 - [Financial Statement Analysis](#)
 - BECGE1115 - [Introduction to financial markets](#)
- BECGE1329** "[Simulation de gestion - jeu d'entreprise](#)" has prerequisite(s) BECGE1213 ET BECGE1322 ET BECGE1115
- BECGE1213 - [Financial Statement Analysis](#)
 - BECGE1322 - [Marketing](#)
 - BECGE1115 - [Introduction to financial markets](#)
- BECGE1340** "[Seminar in Economic History](#)" has prerequisite(s) BECGE1110 ET BECGE1211 ET BINGE1131
- BECGE1110 - [Economics I](#)
 - BECGE1211 - [Macroeconomics](#)
 - BINGE1131 - [Probability](#)
- BECGE1341** "[Public policy seminar](#)" has prerequisite(s) BECGE1210 ET BECGE1211
- BECGE1210 - [Microeconomics](#)
 - BECGE1211 - [Macroeconomics](#)
- BINGE1231** "[Statistique approfondie](#)" has prerequisite(s) BINGE1131
- BINGE1131 - [Probability](#)
- BINGE1232** "[Mathématiques pour ingénieur de gestion III](#)" has prerequisite(s) BINGE1132
- BINGE1132 - [Mathematics for business engineers II](#)
- BINGE1310** "[Gestion des opérations](#)" has prerequisite(s) BINGE1232
- BINGE1232 - [Mathematics for business engineers III](#)
- BINGE1311** "[Analyse et conception des systèmes d'information](#)" has prerequisite(s) BECGE1230
- BECGE1230 - [Foundations of business information systems](#)
- BINGE1314** "[Statistique multivariée et économétrie](#)" has prerequisite(s) BINGE1231
- BINGE1231 - [In depth Statistics](#)
- BINGE1341** "[Sciences et technologies IV](#)" has prerequisite(s) BINGE1242
- BINGE1242 - [Sciences and technologies III](#)
- BNEER1281** "[Néerlandais II](#)" has prerequisite(s) BNEER1181
- BNEER1181 - [Dutch I](#)
- BNEER1381** "[Néerlandais III](#)" has prerequisite(s) BNEER1281
- BNEER1281 - [Dutch II](#)

The programme's courses and learning outcomes

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies 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

✓ **Content.**○ **Economics**

○ BECGE1110	Economics I	Hélène Latzer	PS [q1] [45h +15h] [5 Credits] 
○ BECGE1111	Economics II	Jean-François Fagnart	PS [q2] [45h +22.5h] [6 Credits] 

o Languages

<p>o BANGL1191</p>	<p>English I</p>	<p>Gerlanda Cipolla Marleen Cré Sebastiano Ferrari Milena Fontana Julie George Garkov Priscilla Hemeleers David Leisterh Françoise Longrée (coord.) Isabelle Lukau Erwin Ochsenmeier (coord.) Melissa Uzumcuoglu</p>	<p>EN [q1+q2] [0h +30h] [4 Credits]</p>
<p>o BNEER1181</p>	<p>Dutch I <i>Will benefit from a course unit of Dutch for Beginners or Spanish in first year: 1) The student who has had less than two hours of Dutch per week throughout the year in one of the last four years of high school; 2) The student who have completed high school in 2019-2020 or earlier and who has not been trained in Dutch between the end of high school and its registration in St. Louis. Additional informations and forms to fill out are available at the Faculty secretariat.</i></p>	<p>Astrid De Munter (coord.) Nadine Kayobotsi (coord.)</p>	<p>NL [q1+q2] [0h +30h] [4 Credits]</p>

Science and Technology

○ BINGE1242	Sciences and technologies III	Thomas Gathy Massimo Marotta Sébastien Toussaint	EN [q2] [45h +30h] [5 Credits]
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Languages

○ BANGL1291	English II	Julie George Garkov Priscilla Hemeleers Françoise Longrée (coord.) Isabelle Lukau Erwin Ochsenmeier (coord.) Madeline Riordan	EN [q1+q2] [0h +60h] [5 Credits]
○ BNEER1281	Dutch II <i>Student who replaced the course unit of Dutch I the First Year by Dutch for Beginners I or Spanish I should follow the Second Year, the same course unit, higher level (Dutch for Beginners II or Spanish II). Additional informations are available at the Faculty secretariat.</i>	Isolde Boutsen (coord.) Astrid De Munter (coord.) Guy Sirjacobs	NL [q1+q2] [0h +60h] [5 Credits]

INGB1BA - 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] Teaching language.944 Tf 1 0 0 -1 30.929000[/bFR,uq 6 0 dents
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⊗ BECGE1341	Public policy seminar 🇯🇵	Gilles Grandjean (coord.) Hélène Latzer	EN [q2] [30h] [5 Credits] 🌐
⊗ BECGE1314			

INGB1BA - Information

Access Requirements

- 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 of the [examination giving access to 1st cycle studies](#) when you submit your application

Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](#).

Admission to these courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in medicine and dental science**

[Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

Note: students wishing to enrol for a **Bachelor's degree in Medicine** or a **Bachelor's degree in dental science** must first sit an [aptitude test \(fr\)](#).

- Access to **Bachelor of Science in Business Engineering**

The Bachelor of Science in Business Engineering is a joint program organised by KU Leuven and UCLouvain Saint-Louis Bruxelles. In order to register, all candidate must first submit an application via the [KU Leuven admission platform](#). The [conditions of access](#) to this programme are specific.

Teaching method

At Saint-Louis, lectures are given in moderate-sized auditoriums. This allows students to have close contact with their lecturers.

Course units in economics and quantitative methods are accompanied by practical work sessions in small groups.

In the first term, the English and law course units are accompanied by remedial classes for students experiencing difficulties in these subjects. Remedial classes in economics and mathematics are offered in the second term to students who did not pass these exams during the January exam session.

Methodological assistance

The faculty places great importance on educational support for all bachelor's programmes. The Academic Guidance Service (AGS)

Other programmes available

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

Faculty administration

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

Curriculum Management

