



BBEB1BA - Introduction

Introduction

Introduction

PLEASE NOTE: 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.

The Bachelor of Science in Business Engineering in Brussels is a joint English-taught programme organised by the Faculty of Economics and Business of **KU Leuven** and the Faculty of Economics, Social and Political Sciences and Communication of the **UCLouvain Saint-Louis – Bruxelles**. Both institutions are situated in the heart of the city, near Brussels Central Station. Students will attend courses and take exams at both institutions and obtain a **joint degree**.

Companies and organizations today operate in a highly complex and interconnected world, where they must navigate rapid technological changes, global competition, and evolving consumer expectations. To thrive in this environment, they make critical decisions that affect every aspect of their operations, from financial planning to marketing strategies, production efficiency and human resource management.

The Business Engineering programme equips students with the skills and knowledge to understand and optimize these decisions. The approach is multidisciplinary and includes a thorough study of all major business domains such as finance, accounting, marketing, logistics and human resources, as well as the economic, legal and social landscape in which businesses operate. Additionally, the programme emphasizes the development of strong analytical skills. Students learn how to use data analysis, mathematical modeling and IT tools to make informed decisions, optimize business processes, predict outcomes and assess risks.

Since analytical skills are a core part of the Business Engineering programme, students are expected to come with a solid background in mathematics. They will also need to anticipate working in multiple languages, a natural extension of living and studying in multi-lingual Belgium and Brussels. Students refine their abilities in English through courses and workshops whilst studying at least one other language to encourage familiarity with today's polyglot business environment.

Mathematics and Statistics: crucial building blocks

Today's business engineers often use mathematical and statistical models to describe reality in a logical way. The language of mathematics and statistics is a powerful tool to describe and explore those models. By learning this language you develop your skills in recognising structures, systematic problem-solving, and checking the plausibility of the obtained result. You will also refine and apply your knowledge of mathematics and statistics in various courses, including linear optimisation, operations research, econometrics, accounting, finance, sciences and technologies.

[Learn more on what prior knowledge is required](#)

Two institutions, one programme, one degree

The Faculty of Economics and Business of KU Leuven and the Faculty of Economics, Social and Political Sciences and Communication of the Université Saint-Louis – Bruxelles jointly organise the English-language Bachelor programme in Business Engineering.

KULeuven

Through assignments and projects, in close contact with organizations (e.g. management projects, bachelor's thesis and career

BBEB1BA - Teaching profile

Learning outcomes

At the end of the programme students will:

I. Be conversant with the discipline's core teachings and methods

At the end of the Programme students will be able to:

• **Use written and oral communication skills in English and be able to defend a scholarly argument or present a piece of research in accordance with academic ethics. In particular students will acquire:**

- The ability to produce intellectually rigorous personal reasoning and to defend it both in written and oral forms ;
- The ability to produce university-quality research work, notably through the manipulation of statistical information ;
- The ability to produce scholarly writing in accordance with academic norms.

LO of the practical classes for all economics and management courses; the CU of Business Project.

- Oral and written (passive and active) communication skills in English and another foreign language, - and ability to converse in everyday and specialised language (in the fields of the human and social sciences) in either of these two languages;
- The programme includes a period of 'immersion' in a language other than the student's mother tongue (language trips abroad).
ERASMUS exchanges in BAS 3.

Programme structure

The Bachelor of Business engineering programme is structured along five domains:

- Management of Business Domains
- Design of Business Processes
- Mathematical and Statistical Techniques - Research Skills
- Natural and Applied Sciences
- Economic Analysis and International Orientation

The combination of these domains makes the Business Engineering programme very relevant in today's world. The unique combination of business economics, quantitative methods and technology will offer you the opportunity to cultivate a much sought after multi-disciplinary approach towards business.

The study programme may change slightly every year. The official study programme that applies to the year in which you are studying can be consulted from 15 July onwards in [KU Leuven's online programme catalogue](#), which is best viewed on a large screen.

In the second and third year, students will immerse themselves in specialized courses essential for a deep understanding of core business domains in companies like accountancy, financial management, marketing, operations management, strategic management, ...) In addition to advancing their managerial skills, they will also sharpen their analytical skills. They will master the necessary mathematical and statistical techniques to analyse business problems and work out optimal solutions. Additionally, students will gain practical skills along with insights into technical aspects.

The curriculum also incorporates language studies, offering options such as Spanish, German, Dutch, and French at varying levels. The flexibility of elective courses in the third year allows students to tailor their academic journey to align with their career goals. This

- 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

1 2 3

○

Year

1 2 3

3

o Other Human and Social Sciences

○ BINGE1160	Global Economic History	Robrecht Declercq	EN [q1] [30h] [5 Credits]	x	
○ BESPO1164	Geopolitics	Jeroen Joly	EN [q2] [30h] [5 Credits]		
○ BESPO1360	Ethics and the economy	Yannick Vanderborght	EN [q1] [30h] [5 Credits]		

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

BECGE1215	"Public economics" has prerequisite(s) BECGE1217 <ul style="list-style-type: none"> • BECGE1217 - Microeconomics
BECGE1217	"Microeconomics" has prerequisite(s) BECGE1113A <ul style="list-style-type: none"> • BECGE1113A - Economics I
BECGE1314	"International Economics" has prerequisite(s) BECGE1217 <ul style="list-style-type: none"> • BECGE1217 - Microeconomics
BECGE1317	"European Economics" has prerequisite(s) BECGE1113A ET BINGE1113 <ul style="list-style-type: none"> • BECGE1113A - Economics I • BINGE1113 - Economics II
BECGE1327	"Corporate Finance" has prerequisite(s) EINGE1213 ET BECGE1116 <ul style="list-style-type: none"> • EINGE1213 - Financial Statement Analysis • BECGE1116 - Introduction to financial markets
BECGE1328	"Management and strategy" has prerequisite(s) EKULB1320 <ul style="list-style-type: none"> • EKULB1320 - Marketing
BECGE1340	"Seminar in Economic History" has prerequisite(s) BECGE1113A ET EINGE1235 <ul style="list-style-type: none"> • BECGE1113A - Economics I • EINGE1235 - Statistics for Data Science
BECGE1341	"Public policy seminar" has prerequisite(s) BECGE1217 <ul style="list-style-type: none"> • BECGE1217 - Microeconomics
BESPO1360	"Ethics and the economy" has prerequisite(s) BECGE1113A ET BINGE1113 <ul style="list-style-type: none"> • BECGE1113A - Economics I • BINGE1113 - Economics II
BINGE1243	"Conceptual Physics with technical Applications" has prerequisite(s) EINGE1134 <ul style="list-style-type: none"> • EINGE1134 - Mathematics for Business Engineers II
EINGE1212	"Production and Logistics Management" has prerequisite(s) EINGE1133 ET EINGE1134 <ul style="list-style-type: none"> • EINGE1133 - Mathematics for Business Engineers I • EINGE1134 - Mathematics for Business Engineers II
EINGE1213	"Financial Statement Analysis" has prerequisite(s) EINGE1110 ET EINGE1111 ET EINGE1120 <ul style="list-style-type: none"> • EINGE1110 - Financial Accounting A • EINGE1111 - Financial Accounting B • EINGE1120 - Introduction to Law
EINGE1233	"Linear Optimisation" has prerequisite(s) EINGE1133 ET EINGE1134 <ul style="list-style-type: none"> • EINGE1133 - Mathematics for Business Engineers I • EINGE1134 - Mathematics for Business Engineers II
EINGE1234	"Probability Theory and Descriptive Statistics" has prerequisite(s) EINGE1133 ET EINGE1134 <ul style="list-style-type: none"> • EINGE1133 - Mathematics for Business Engineers I • EINGE1134 - Mathematics for Business Engineers II
EINGE1235	"Statistics for Data Science" has prerequisite(s) EINGE1133 ET EINGE1134 <ul style="list-style-type: none"> • EINGE1133 - Mathematics for Business Engineers I • EINGE1134 - Mathematics for Business Engineers II
EINGE1236	"Software Development" has prerequisite(s) BINGE1135 <ul style="list-style-type: none"> • BINGE1135 - Foundations of Business Information Management
EINGE1251	"Spanish 2" has prerequisite(s) EINGE1151

	<ul style="list-style-type: none"> • EINGE1151 - Spanish 1
EINGE1252	" German 2 " has prerequisite(s) EINGE1152
	<ul style="list-style-type: none"> • EINGE1152 - German 1
EINGE1253	" Dutch 2 " has prerequisite(s) EINGE1153
	<ul style="list-style-type: none"> • EINGE1153 - Dutch 1
EINGE1254	" French 2 " has prerequisite(s) EINGE1154
	<ul style="list-style-type: none"> • EINGE1154 - French 1
EINGE1255	" French 2 (advanced) " has prerequisite(s) EINGE1155
	<ul style="list-style-type: none"> • EINGE1155 - French 1 (advanced)
EINGE1256	" Dutch 2 (advanced) " has prerequisite(s) EINGE1156
	<ul style="list-style-type: none"> • EINGE1156 - Dutch 1 (advanced)
EINGE1314	" Macroeconomics " has prerequisite(s) BINGE1113
	<ul style="list-style-type: none"> • BINGE1113 - Economics II
EINGE1316	" Management Accounting " has prerequisite(s) EINGE1110 ET EINGE1111
	<ul style="list-style-type: none"> • EINGE1110 - Financial Accounting A • EINGE1111 - Financial Accounting B
EINGE1331	" Operations research " has prerequisite(s) EINGE1233 ET EINGE1234
	<ul style="list-style-type: none"> • BINGE1233 - Linear Optimisation • EINGE1234 - Probability Theory and Descriptive Statist 0. ine12.80000019 22.913001 55.374 cm 0 g BT /F3 8 Tf 1 0 0 -1 0 7.6440

BBEB1BA - 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 (FR, EN, ES, NL, DE, ...)

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

o Content:**o Economics**

○ EINGE1314	Macroeconomics ■		EN [q1] [52h] [5 Credits] 🌐
-------------	------------------	--	-----------------------------------

o Management

○ BECGE1328	Management and strategy ■	Frank Janssen	EN [q1] [30h] [5 Credits] 🌐
○ EINGE1315	Business Project		EN [q2] [16h] [6 Credits] 🌐
○ EINGE1316	Management Accounting ■		EN [q2] [26h] [3 Credits] 🌐
○ BECGE1327	Corporate Finance ■	Anouk Claes	

⌘ BECGE1314	International Economics 🇺🇸	Jean-François Fagnart	EN [q2] [30h] [5 Credits] 🌐
⌘ BECGE1341	Public policy seminar 🇺🇸	Gilles Grandjean (coord.) Hélène Latzer	EN [q2] [30h] [5 Credits] 🌐
⌘ BECGE1215	Public economics 🇺🇸	Tom Truys	EN [q2] [45h +15h] [5 Credits] 🌐
⌘ BCOMU1213	Intercultural communication	Greet De Baets	EN [q2] [30h] [5 Credits] 🌐
⌘ BCOMU1313	International communications	Georgios Terzis	EN [q2] [30h] [5 Credits] 🌐

⌘ **Language Immersion Track : Dutch**

Students take 9 credits of this track. Students follow these courses in the third stage in Dutch, together with students of the Dutch programme *Handelswetenschappen* at KU Leuven Campus Brussels. Students can only choose this option provided they have achieved a cumulative study efficiency (CSE) of at least 75%.

⌘ EKULB1333	Ondernemerschap en business planning		NL [q1] [26h] [3 Credits] 🌐

⌘ **Language Immersion Track : Dutch**



EKULB1339	Short Mobility Economics and Business (Bachelor)		[q2] [6 Credits]
-----------	--	--	------------------------

BBEB1BA - 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 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 0 0 -1 12.80000019 375.34799194 Tm \[\(Admission to undergraduate studies in](#)

- UCLouvain Saint-Louis Bruxelles: espo-slb@uclouvain.be
- KU Leuven: info.campusbrussel@kuleuven.be

