



Bachelor in Business engineering Option Anglais

BA-INGE | BA-INGEE | 2024-2025

Programme mnemonic

BA-INGE > Option *Anglais* : BA-INGEE

Exists also in > Option *Français* : BA-INGEF

Studies level Bachelor

Learning language english

Schedule office hours

Studies category / subcategory

Economics and business management / Business management

Campus

Solbosch

Programme objectives

This bachelor's program equips students with a comprehensive set of foundational knowledge and skills in management and exact sciences, supplemented by courses in general culture and languages. It also aims to prepare students for advanced studies in management sciences at the master's level. This program enables students to grasp the full range of organizational aspects of a business.

The curriculum includes a broad core component, enhanced by elective courses organized into "minors." These minors allow students to gradually begin their specialization. These minors are not organized for the year 2024-2025, as only Bloc 1 will be programmed.

This entails advanced training in sciences and quantitative methods (chemistry, physics, mathematics, and statistics), the study of two foreign languages, according to the student an apprenticeship path, and courses social sciences focused on management and economics, psychology, and corporate management; private, commercial, and tax law; economic history and geography; sociology, and marketing. The latter part of the program introduces several management disciplines: financial theory, human resources management, management control, etc. This rigorous and varied program allows students to later specialize in numerous management areas.

Pedagogical Methods and Team

The pedagogical methods advocated by Ernest Solvay have established the reputation of the Solvay Brussels School of Economics and Management. The quality of its programs relies on a demanding regime that combines theory with practice. Thus, students benefit from a quality scientific background, rigorous training in economic and management sciences, numerous opportunities for mobility, and language learning.

Constantly adapting, the programs reflect the evolutions of various disciplines in Economics and Management. Recently adjusted to the changes in the economic world, the pedagogical methods rely notably on case studies, seminars, and group projects. This approach maximizes opportunities for interaction between students and faculty. The curriculums aim to stimulate entrepreneurship, analytical capability, decision-making, listening to others, teamwork, and global awareness.

Support for success is implemented from the beginning of the program to allow students, on a voluntary basis, to address any initial deficiencies (see below "support for success").

Programme's added value

This versatile program combines theory and practice, providing students with the fundamental academic underpinnings of management for seamless integration into the management environment. The Business Engineering program blends exact sciences (chemistry, physics, mathematics) with management aspects, complemented by courses in law, humanities, statistics, and economics, as well as solid foundations in English and Dutch.

Solvay Brussels School's Assets

- > A Faculty of the ULB, an international university located at the heart of Europe.
- > An international faculty composed of high-level researchers and recognized professionals, ensuring that teachings reflect the current state of knowledge and adapt to the evolutions of the economic and financial sectors.
- Demanding and rigorous teachings based on a multidisciplinary and analytical approach, fostering the development of critical thinking and problem-solving skills.
- > Varied pedagogical methods (case studies, seminars, group projects), optimizing interactions between students and teachers.

- Students from diverse backgrounds (up to 80% international students in some programs).
- > A **comprehensive Faculty**, offering training from bachelor to tailor-made programs for businesses to best meet the needs of economic and financial sectors.
- International accreditations: EQUIS (European Foundation for Management Development) and AMBA (Association of Master of Business Administration). AACSB (Association to Advance Collegiate Schools of Business) accreditation is pending.

Professional Assets

To facilitate our students' integration into the workforce, the faculty has established several programs and services offered to students:

- Credited internships [http://www.solvay.edu/creditedinternship-programme] in companies (full-time, minimum 3 months - maximum 6 months, abroad or in Belgium) give students the opportunity to gain their first professional experience, test their training, and develop their professional network.

- The Career Service [http://www.solvay.edu/career-services] advises and guides students in their job search (Job Day, conferences, Career Book, various job search training sessions). Over time, the Faculty has developed an extensive network of recruiters and numerous contacts with companies in Belgium and around the world.

- A Faculty with an **active network of 23,000 alumni**, spread across 100 countries.

International Assets

The Faculty offers varied opportunities to study abroad (at master's level):

- > The international exchange program, [http://www.solvay.edu/ outgoing-students] with over 130 partners in 40 countries
- > 3 double degrees [http://www.solvay.edu/double-degrees]
- > QTEM network [http://www.solvay.edu/master-qtem] masters.

Succeed in your studies

Choose

The information and guidance counsellors at the InfOR-études [https://www.ulb.be/en/studies-info-desk-1] service will help you choose your studies throughout the year.

Succeed

Take part in preparatory courses [https://www.ulb.be/en/studiesinfo-desk-1] or get help to succeed [https://www.ulb.be/en/ studies-info-desk-1], before or during your studies.

Get help

Apply for financial aid, look for accommodation or a student job, get support [https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1] for your specific needs.

International/Openness

In the current context of globalization and internationalization, SBS-EM deems it essential for students to study abroad. With

over 130 university or school partners, it offers students an exceptional opportunity to discover new pedagogical methods, adapt to another educational system, and study subjects. The exchange program also allows students to deepen their language skills, explore the world, discover new cultures, and different lifestyles. By learning to acclimate to a less familiar living environment, students will broaden their horizons, improve their adaptability, and be implicitly exposed to new values, such as tolerance and intellectual curiosity.

*International Exchange Program

Since 1990, the international exchange program has evolved to become one of the Faculty's most significant components. Today, partnerships have been established with over 130 schools or universities in more than 40 countries.

More information at www.solvay.edu/outgoing-students.

*QTEM Master Network

The Quantitative Techniques for Economics and Management network was initiated by SBS-EM. This international network offers students the opportunity to undertake two international experiences (two exchanges or one exchange and one internship). Additionally, they will benefit from an immersion in an international company during an internship. The network currently has 23 partners and is expanding. More information at www.qtem.org.

*Double Degrees

SBS-EM offers several double degree options:

- > In Business Engineering, with Politecnico di Milano
- > In Economics or Business Engineering, with HEC Montréal
- > In Economic Governance and Public Policy in Europe, with LUISS Guido Carli
- > In Business Economics, with the Universiteit Antwerpen

More information at www.solvay.edu/double-degrees [http:// www.solvay.edu/double-degrees] .

*Triple Degrees

SBS-EM offers triple degree Bachelor diploma in Business Economics with Goethe University in Frankfurt, and LUISS University in Rome.

More information at https://sbsem.ulb.be/international/ outgoing-students/triple-degrees

Job opportunities

Prospects

Pursuing an education at Solvay Brussels School does not entail committing to a single career path, but rather enables access to a diverse array of professional trajectories, both in Belgium and on an international scale. The multidisciplinary nature of our programs facilitates entry into a wide spectrum of vocations.

By augmenting a bachelor's degree with a master's in business engineering, Management Science, or Economic Sciences, students broaden their prospects significantly:

- > Consultant in management, strategy, or information technology
- > Entrepreneur
- > Human resources management
- > Brand or product manager in marketing or distribution sectors



- > Financial analyst, specialist in mergers and acquisitions
- > Logistics manager
- > Auditor
- > Project manager
- > Business analyst
- > Management controller
- > Consultant in economics
- > Economist
- > Policy advisor or analyst in an economic policy "think tank"

- > Researcher in economics
- > Statistical analyst

Please note, this list of prospects is not exhaustive and is provided for illustrative purposes only.

Jury President Germain VAN BEVER

Jury Secretary Bertrand COLLIGNON



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Bloc 1 | BA-INGEE | BA-INGE

Compulsory courses

CHIM-S171	O 5 credits [lecture: 36h, tutorial classes: 24h] ⁽¹⁾ first and second terms ⁽²⁾ English
ECON-S1702	Introduction to microeconomics Chrissopighi BRAILA (Coordinator) and Paula GOBBI 3 5 credits [lecture: 36h, tutorial classes: 24h] first term English
ECON-S1703	Introduction to macroeconomics Fabio Blasutto (Coordinator) ^③ 5 credits [lecture: 36h, tutorial classes: 24h] [─] second term
ENVI-S171	System theory : from science to a sustainable society Bertrand COLLIGNON (Coordinator) ② 5 credits [lecture: 30h, tutorial classes: 12h] first term First term
GEST-S171	Introduction to accounting Marie-Pierre Lenain (Coordinator) ② 5 credits [lecture: 36h, tutorial classes: 8h] 🛗 second term 🔎 English
HIST-S171	Economic history and economic geography Gilles VAN HAMME (Coordinator) and Julien del Marmol 3 5 credits [lecture: 48h] 🛗 second term 🖓 English
MATH-S1711	Mathematics : calculus Germain VAN BEVER (Coordinator) ③ 5 credits [lecture: 30h, tutorial classes: 30h] first term
MATH-S1712	Mathematics : linear algebra Bram DE ROCK (Coordinator) ③ 5 credits [lecture: 24h, tutorial classes: 24h] f second term
PHYS-S1701	Physics: electromagnetism Spencer Jolly (Coordinator) ③ 5 credits [lecture: 30h, tutorial classes: 24h] = second term
STAT-S172	Statistics 1 Afrae Hassouni (Coordinator) ⊙ 5 credits [lecture: 24h, tutorial classes: 24h]

First language

One course chosen from the following

- LANG-S1701
 Academic english
 Anne Thérèse Carpenter (Coordinator)

 (optional)
 ③ 5 credits [personal assignments: 48h]

 ⁽¹⁾ first and second terms

 ₍₂₎ English

Second language

One course chosen from the following

LANG-S1004 (optional)	Dutch I Evie TOPS (Coordinator) and Pascale THIELEMANS	
(optional)	🕐 5 credits [language practice: 48h] 🛛 🛗 first and second terms 🛛 💭 English	
LANG-S1005	German I Barbara OBST (Coordinator)	
(optional)	🕑 5 credits [language practice: 48h] 🛛 🛗 first and second terms 🛛 💭 English	



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Bloc 2 | BA-INGEE | BA-INGE

Compulsory courses

CHIM-S201	Industrial applications of chemistry Prakash VENKATESAN (Coordinator) ② 5 credits [lecture: 24h, tutorial classes: 24h, practical work: 12h] 🛗 second term 📿 English
DROI-S2701	Economic law and private law ⊙ 5 credits [lecture: 48h]
ECON-S273	Monetary theory ⊙ 5 credits [lecture: 36h]
GEST-S2002	Sustainable Development, Business and Policy Estelle CANTILLON (Coordinator), Bertrand COLLIGNON and Bruno VAN POTTELSBERGHE I second term Pinglish
GEST-S2701	Accounting & financial statement ② 5 credits [lecture: 36h, tutorial classes: 24h] — first and second terms — Denglish
INFO-S2701	Computer sciences ⊙ 5 credits [lecture: 24h, tutorial classes: 36h]
MATH-S272	Mathematics 2 ⊙ 5 credits [lecture: 30h, tutorial classes: 30h]
PHYS-S271	Applied physics ⊙ 5 credits [lecture: 24h, tutorial classes: 24h, practical work: 12h] 🛗 second term ᆽ English
STAT-S272	Statistics 2 ② 10 credits [lecture: 48h, tutorial classes: 36h] 🖞 first and second terms 📿 English
	First language
One course chose	en from the following
LANG-S2003 (optional)	French II ⊙ 5 credits [language practice: 60h]

LANG-S202 Anglais II Mady DECRICK (Coordinator) and David Albert BEST (optional) O 5 credits [language practice: 60h] 🗂 academic year 🔎 English

Second language

One course chosen from the following

LANG-S212	Néerlandais II Evie TOPS (Coordinator), Sofie VAN GEIJN and Gert Van Der Plas
(optional)	📀 5 credits [tutorial classes: 60h] 🛛 🛗 academic year 📿 Dutch

LANG-S220 Allemand II Dorothea GASSENMEYER (Coordinator) (optional) ③ 5 credits [language practice: 36h] academic year Accessible uniquement sur dossier



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Bloc 3 | BA-INGEE | BA-INGE

Compulsory courses

DR0I-S3002	Psychologie et droit du travail Vanessa DE GREEF (Coordinator) and Alba Jasini ③ 5 credits [lecture: 48h] ⁽¹⁾ first and second terms
DROI-53701	Tax law ⊙ 5 credits [lecture: 36h]
GEST-S204	Economic and social development (Chaire Marie et Alain Philippson) Yvan Guichaoua (Coordinator), Dirk JACOBS and Philip VERWIMP © 5 credits [lecture: 48h] 🗂 first term 🔎 English
GEST-S303	O 5 credits [lecture: 24h, tutorial classes: 12h] ⁽¹⁾ second term ⁽²⁾ English
GEST-S307	Theory of innovation, entrepreneurship and strategy (Solvay Chair of Innovation) Bruno VAN POTTELSBERGHE (Coordinator), François FAELLI and Olivier WITMEUR ② 5 credits [lecture: 36h, practical work: 24h] 🛗 second term 📿 English
GEST-S3701	Management of human ressources ④ 5 credits [lecture: 24h, tutorial classes: 24h] 🗂 first and second terms 🔎 English
GEST-S3702	Applied science and technology seminar ④ 5 credits [lecture: 24h, tutorial classes: 24h] first and second terms
GEST-S371	Theoretical finance ◎ 5 credits [lecture: 24h, tutorial classes: 12h]
GEST-S375	Financial audit ◎ 5 credits [lecture: 24h, tutorial classes: 24h] 🛗 first term 🔎 English
STAT-S301	Introduction to econometrics Germain VAN BEVER (Coordinator) ② 5 credits [lecture: 24h, tutorial classes: 24h] 🛗 first term 🔎 English
	First language

One course chosen from the following LANG-S3003 French III LANG-S302 💾 unknown term

Second language

One course chosen from the following

LANG-S312 Néerlandais des affaires III | Evie TOPS (Coordinator), Katrijne MERRIGAN and Sofie VAN GEIJN ⊙ 5 credits [language practice: 60h] 🛗 first and second terms 🔗 Dutch LANG-S320 Allemand III Barbara OBST (Coordinator) ② 5 credits [language practice: 36h] 🛗 academic year 👂 German

