Master of Digital Business Engineering





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As an international student, you will be part of an inclusive, multi-accredited university that scores well in academic rankings, and is praised for its high value for money.

In detail

With this degree, you will embody the ever-growing synergy between IT and business economics, allowing you to be at the forefront of digital innovation and drive the growth of emerging enterprises that are shaping the world around us.

In this two-year Master's programme Master's programme, you will:

acquire a **solid foundation** in economics, business administration and information technology and

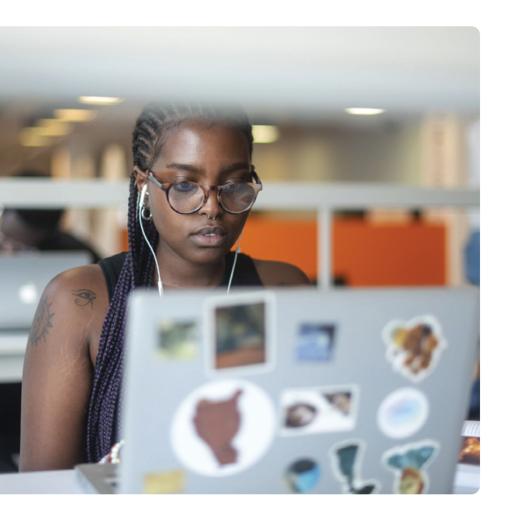
combine **knowledge** of development and management of information systems with the study of important digital innovation domains, such as artificial intelligence, data mining and data engineering.

Innovative business city

As a student in Antwerp, you find yourself in the only Belgian city on the Financial Times's list of most innovative business cities in Europe. In 2022, the Financial Times placed Antwerp in the top 10 of the 'Global Cities and Regions of the Future 2022/2023' rankings. The city was rewarded for its business-friendliness, connectivity and economic potential. And for good reason. As a smart city and an ecosystem for digital innovation, Antwerp actively stimulates entrepreneurial talent and technological start-ups. The city is home to Europe's second largest port, the global diamond trade, a thriving fashion industry, etc. All this only 45 minutes away from Brussels, the heart of the European Union. You can easily travel to Amsterdam, Paris, Berlin, London, etc. It's up to you to explore Europe, one step at a time!

Rankings and accreditations

The faculty's AACSB, EQUIS and EFMD programme accreditations illustrate our high-quality teaching and research, placing us among a select group of global leaders in business education. In the Financial Times European Business Schools Ranking 2022, the University of Antwerp is ranked 92nd.



Programme structure

The Faculty of Business and Economics is known for its one-on-one approach, tproviding each student with individual follow-up. Our professors and academic staff are very accessible and will help you with any questions you may have. They do everything they can to make you feel right at home in our international classroom.

Throughout the programme, you will find yourself in close interaction with academics, seasoned industry experts and alumni from a wide variety of disciplines. Theoretical knowledge combined with research and real-life cases from the corporate world will enrich your understanding of today's digital world, ultimately helping you become a critical-thinking, global-minded citizen.

Modules

The programme consists of four modules. The hybrid character of these modules enables you to combine business economics and information technology. You can explore specific areas of your interest in greater depth by choosing from a wide range of electives.

Digital business fundamentals:

This module gives you a solid foundation in business economics, with an explicit focus on innovation. During the courses, you will be trained to create added value in our digital economy.

Digital engineering fundamentals:

Find out what role IT innovations play in the daily functioning of organisations and learn how to build complex software. Work with databases, data mining and data engineering to find answers to



Thanks to the comprehensive nature of the Master of Digital Business Engineering, the students become highly-skilled professionals with an ethical and sustainable mindset.

Prof. Koen Vandenbempt, Dean complex business questions. Learn to identify the risks and opportunities for global information and communication technology within an organisation.

Major and electives:

Tailor the programme to your own interests by choosing a major and electives. You can focus on business-oriented electives such as European and International Entrepreneurship, Finance and Marketing, or Strategy and Organisation, or more IT-oriented topics such as Digital Agility.

Master's thesis portfolio and research methodology:

The courses in research methodology prepare you to conduct academic research in the field of management information systems. You'll gain a thorough understanding and knowledge of empirical research methods and its applications.

Your Master's thesis and the Integration Project are the crowning pieces of your two-year study. The Integration Project is a capstone course in collaboration with leading companies such as Accenture and Baloise Insurance, where knowledge from all the courses is integrated to solve a complex and real-world case study. During this module, you will learn to conduct academic and practical research independently.



For me, the absolute highlight of my studies was the International Consulting Bootcamp in India. I learned how to work in an international culture and it was just a fantastic experience.

Lien Brusselaers, Product lead at The Master Channel

Learning outcomes

Your Master of Digital Business Engineering will kickstart your (international) career, as you will have obtained indispensable and multidisciplinary skills.

All learning outcomes and competences are listed on www.uantwerpen.be/digital-business-engineering, and at the end of the programme, **you'll be able to:**

- distinguish and define concepts of specific areas of business economics and information technology, and you are aware of the latest national and international developments in these areas;
- conduct research and critically evaluate the results in a scientifically correct manner, based on your analytical insights and methodological training;
- recognise the ethical and sustainable aspects of business operations in a globalising world, and contribute to the quality improvement of business processes in a socially responsible manner;
- identify the interaction between scientific and technological changes on a global scale, and subsequently estimate their impact on business decisions;
- work and communicate efficiently in multicultural and/or international teams.

Internationalisation

Employers value young professionals who are used to working in multicultural settings. Hence, in addition to a solid theoretical basis, you will get plenty of opportunities to gain international experience during your studies. Not only will you meet fellow students from all over the world in our international classroom, **but you can also:**

take part in the **Erasmus+ exchange programme** of our 140 partner universities,

participate in a summer school or bootcamp,

do an **internship** or a **consulting** project or

__ obtain a **double degree**.



Curriculum

Digital Business
Fundamentals

Fundamentals	Semester	ECTS credits
Compulsory common part		18
Digital Strategy		
and Governance	SEM 1	6
Strategic Management	SEM 1	6
Digital Innovation	SEM 3	6
Compulsory common part		
1 to choose in part 1 of the Maste	r	3
Data Science and Ethics	SEM 1	3
Ethical and Sustainable		
Business	SEM 2	3
Electives		9/12
Choose 9/12 ECTS credits		•
in part 1 or in part 2 of the Master		
Entrepreneurial Finance	SEM 2 or 4	6
Omnichannel and		
Digital Marketing	SEM 1 or 3	6
Organisational Development		
and Change Management	SEM 1 or 3	6
Supply Chain Management	SEM 1 or 3	3
Sustainability Management	SEM 2 or 4	6
Trends in Finance and Finance		
Technology	SEM 2 or 4	3
Transport Innovation,		
Digitalisation and		
Entrepreneurship	SEM 1	6
Blended intensive programme		
on Leadership Development	SEM 1	3
Innovation Management and		
Business Modeling	SEM 1	6

Digital Engineering Fundamentals	Semester	ECTS credits
Compulsory common part		21
Machine Learning for Business	SEM 1	6
Digital Risk & Security	SEM 2	6
Software Engineering		
and Architecture	SEM 1 & 2	9
Electives		
Choose 9/6 ECTS credits		ECTS credits
in part 1 of part 2 of the Master		9/6
Current Topics in		
Data Science and		
Artificial Intelligence	SEM 2 or 4	3
Data Engineering	SEM 2 or 4	6
Data Science and Ethics	SEM 1 or 3	3
Digital Auditing	SEM 2 or 4	6
Database Systems	SEM 1 or 3	6
Reinforcement Learning	SEM 2 or 4	6
Software Testing	SEM 2 or 4	6
Topics in Computer Networks		6
L Deep Learning for Business	SEM 2	3
Research Methodology	Semester	ECTS credits 6
Compulsory in part 1 of the Master	25.4	_
Empirical Research in MIS Engineering and Design	SEM 2	3
Science Methodologies	SEM 1	3

Master's Thesis Portfolio	Semester	ECTS credits 24
Compulsory in part 2 of the Master Integration Project Digital		
Business Engineering	SEM 3	9
Master's Thesis	SEM 4	15
1 Major	Semester	ECTS credits 18
18 ECTS credits to be spread over the Major Accounting * Major Digital Agility, Data Science and Artificial Interpretation Major Finance * Major Innovation Managemen Major Marketing * Major Organisation, Strategy at Major Transport and Logistics Major International Exchange 18 ECTS credits at a foreign unin the framework of an exchan	elligence * t and Entrep and Internat * * niversity/ins ge programi	reneurship * ional Business * titute to be taken ne
major, please consult the full stuc www.uantwerpen.be/digital-bus	ly the progra	mme's website:
Choose 12 ECTS		
From the rest of the Master of From the Master of Business En Financial Engineering From the offer of summer school blended intensive programme Winter University, the faculty or a partner institution (after	ngineering: ools, winter s s of the Antv of Business a	schools and the verp Summer and Economics

At a foreign university in the framework of exchange
 From a selection of courses from the YUFE Student
 Journey (after approval)
 Previously obtained credits from a Master's programme

 Previously obtained credits from a Master's programme offered by the Faculty of Business and Economics (upon request submitted through the Helpdesk)

From the list below:		ECTS credits
Internship Project		6
Internship	SEM 1	3
Internship	SEM 2	3



Job opportunities

If you choose to study the Master of Digital Business
Engineering at the University of Antwerp, you will be fully
prepared to take your first steps towards the job market.
During your studies, you are in frequent contact with the
business world through guest lectures, corporate visits, a
career development track and job fairs. Students and alumni
get unlimited access to the Career Center, our go-to platform
for vacancies, internships and career-related events from
hundreds of national and international companies.

Our graduates have a unique combination of skills and take up key roles in shaping digital innovation and managing business transformation. Their profiles are highly soughtafter in the job market and in most cases, our final-year students have already signed a contract before they even graduated. Over the past ten years, 98.5% of our students from the Dutch equivalent programme found a job within six months after graduation.

An exciting career awaits

As a digital business engineer, you stand out because of your unique set of skills, combining in-depth knowledge of IT with a fully-fledged business education. This makes you eligible for a wide range of positions in several industries.

Our alumni take up positions as CEOs, directors, managers, IT consultants, technology advisors and software engineers in numerous national and international organisations. Others have founded their own companies or became researchers at top universities. The possibilities are endless. Where you end up working, depends to a large extent on your personal interests and ambitions.

Orientation year

As of 2021, non-European students in Belgium can make use of the orientation year. This gives them 12 months to find work or start a company in Belgium, following the completion of their studies.





On the one hand, Master of Digital Business Engineering is very analytical and based on theoretical courses like economics, mathematics, statistics, etc. On the other hand, it also focuses on the human part of economics. This profile is very useful for companies specialising in digital transformation and IT projects.

Vincent Willemse

Why choose UAntwerp

Our university is located in the **city of Antwerp**, in the heart of Belgium and Europe. The port of Antwerp is one of the biggest in the world. The city of Antwerp is not just an ancient medieval and baroque city, full of history. It is also a bustling metropolis with a vibrant social scene, impressive architecture and cultural contrasts. Over 170 nationalities live here, more than in New York! This cosmopolitan vibe is also reflected at the University of Antwerp.

First-rate research and education make the University of Antwerp a wonderful place to study and to work. We foster the nexus between research and education. Internationalisation is key to our mission. It is no coincidence that the University of Antwerp is a partner in a highly promising European University Network, the Young Universities for the Future of Europe www.YUFE.eu.

As home away from home to over **20,000 students**, the University of Antwerp prides itself on operating on a human scale. Our faculty and staff will welcome you into top-notch infrastructure on one of our four campuses. While you're here you are also invited to enjoy our vibrant cultural programming, sports facilities and many other available student services.





Testimonial

After obtaining my degree in Digital Business Engineering I started working at Microsoft as a Management Trainee. In 2015, I packed up and moved to New York to work as a consultant at the Gartland and Mellina Group (GMG), a management consulting firm specialising in financial services. I worked with several financial institutions such as banks, hedge funds or insurance agencies, and gave clients advice on key challenges and strategic projects in order to help them achieve a competitive advantage.

In August 2017, I enrolled at Harvard Business School in Boston to obtain a Master of Business Administration. I am convinced that the education I received at the University of Antwerp played an important role in my admission into the programme. Once I obtained my MBA, I accepted a job offer at Evercore, an independent investment bank. Both consultants and investment bankers change projects regularly, which requires a broad set of skills and competencies. Luckily, my degree in Digital Business Engineering prepared me to quickly adapt to new topics in changing environments.

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In my day-to-day tasks, I still fall back on knowledge I acquired in several management courses such as micro- and macroeconomics, econometrics and financial management. But in my opinion, my biggest competitive advantage comes from my management information system courses, which, thanks to my knowledge of technology and finance, allow me to bridge an increasingly important gap between technology and C-suite problems.

So why should you choose the University of Antwerp? Mainly because of the quality and flexibility of the curriculum, the smaller classes and personal connections with professors, and the many destinations for foreign exchange programmes and projects.

Noémie Renaerts, Investment Banking Associate at Evercore

Admission criteria

You are eligible if you have: an academic Bachelor's degree from a recognised university in business economics with a substantial quantitative, technological and IT component or an academic Bachelor's degree from a recognised university with a strong quantitative and technological focus and with sufficient knowledge of business economics and management science.

You will need to provide evidence of your acquired competences in:

_	economics,
	business management,
_	research methodology and mathematics and
	information systems and science.

The following academic degree, obtained in Belgium, will give direct access to the programme:

Bachelor handelsingenieur in de beleidsinformatica

Preparatory programme

If you have an academic degree with a limited economic, management or information systems and science component, you might be eligible to start the Master of Digital Business Engineering by following a preparatory programme. The preparatory programme will be individually assigned by the Board of Admission, depending on the credits obtained in your prior degree(s).

Students who are still completing their Bachelor's degree are also encouraged to apply. Applicants that are enrolled in their final year should, instead of the degree, submit a copy of an original and signed letter from their college or university

confirming that they are expected to complete the programme at the end of the current academic year.

Language proficiency

Since the programme is taught in English, candidates with a prior degree issued outside Belgium, the Netherlands or Luxembourg are required to demonstrate their proficiency in English.

They can do so by submitting a **language certificate** showing their TOEFL, IELTS or ITACE results (the level required can be checked on www.uantwerpen.be/admission). Students with a degree from the United Kingdom, Ireland, United States, Canada, Australia and New Zealand are exempt from providing a language certificate.

The Board of Admission may still wish to verify your command of English in this case, for example through an (online) interview.

Additional requirements

A GMAT or GRE test result is required.

GMAT: an overall score of 600 + 50 on quantitative part
GRE: a minimum score of 162 on quantitative reasoning
and 152 on verbal reasoning

Students are exempt from submitting a GMAT/GRE test result if they have obtained their (business) economics degree at one of the following institutions:

A Belgian university;

 A university ranked in the global top 400 in the most recent edition of THE or QS World Ranking;

One of FBE's exchange partners;

A university with an AACSB, EFMD or EQUIS accreditation

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What makes this programme truly unique, is the way our students are trained to understand the business and economic aspects related to disruptive innovation in an ethical and sustainable way.

Prof. Jan Verelst, Programme director

Application procedure

If you have a Bachelor's or Master's degree from a higher education institution in Belgium, the Netherlands or Luxembourg and you don't need a visa, you can apply through a simplified online form on the programme's website: www.uantwerpen.be/digital-business-engineering.

Candidates who do not fulfil this condition or who need a student visa must submit an online application through the **Mobility Online** tool. Application files for the academic year 2024-2025 can be uploaded in Mobility Online as from 9 November 2023 onwards.

Application deadlines

To submit an application through Mobility Online

For non-EEA * nationals and for students who need to apply for a visa: before 1 March 2024

For EEA nationals: before 1 June 2024

Enrolment deadline

4 October 2024 Enrolments start on 1 July 2024.

The academic year 2024-2025 starts on Monday 23 September 2024.

*EEA = European Economic Area Member states: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein. Lithuania, Luxemburg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden

ECTS credits

The University of Antwerp applies the 'European Credit Transfer and Accumulation System' (ECTS) in all its degree programmes. All study programmes are measured in terms of ECTS credits.

A full-time one-year study programme amounts to **60 ECTS credits** (30 ECTS credits per semester), which implies a student workload of about 1500 to 1800 hours. One ECTS credit stands for 25 to 30 hours of work including contact hours, preparatory work, study and assessment.



Quick facts

Level

Master

Language

English

Credits

120 ECTS credits

Number of years

2

Tuition fee per year *

EUR 1092.10 for EEA nationals EUR 5800 for non-EEA nationals

Campus

Stadscampus

Faculty

Business and Economics

More information

www.uantwerpen.be/
digital-business-engineering



* subject to yearly revision

Contact

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This brochure was published in September 2023. As all information is subject to change, please check our website for the latest updates.









