



***International
Master Programmes
2010-2011***



Message from the rector

Looking for an excellent master programme taught in a vibrant environment? Interested in gaining profound knowledge and developing professional skills? Dreaming of a successful career after your studies?

Then you are at the right address at Hasselt University! Highly motivated students from all over the world choose our university to benefit from our first-rate teaching and learning methods.

There are numerous reasons why Hasselt University attracts many international students. One of them is our excellent staff, which consists of leading authorities in both research and education. Another pro is our innovative approach to university education. That is why our programmes are not only accredited by the NVAO (the Accreditation Organisation of the Netherlands and Flanders), but also multiple facets of our programmes are assessed with the highest rank: excellent. This means that they set the standard for an international level. Last but not least the city of Hasselt and the town of Diepenbeek are nice places to soak up student life and prepare for your professional career.

On behalf of all of the university staff, I am confident this brochure provides you with the basic information about Hasselt, our university, our programmes and the details of our academic offer. We are looking forward to welcoming you here.

Prof. dr. Luc De Schepper
Rector of Hasselt University

CONTENT

Message from the Rector	page 2	Master of Biomedical Sciences	page 18
Hasselt	page 3	Bioelectronics and Nanotechnology	page 19
Hasselt University	page 4	Environmental Health Sciences	page 20
Master of Statistics	page 5	Clinical Molecular Sciences	page 21
Bioinformatics	page 6	Admission Requirements	page 22
Biostatistics	page 7	Diploma requirements	
Epidemiology and Public Health Methodology	page 8	Language requirements	
Master of Management	page 10	How to enrol?	
Master in Applied Economic Sciences:	page 12	Deadline for submission	
Business Engineering in Management		Money Matters	page 23
Information Systems		Tuition fees & health insurance	
Master of Transportation Sciences	page 14	Payment	
(Interfaculty programme)		Living expenses	
International Master of Transportation Sciences			
by distance learning	page 16		

Hasselt

Located in the heart of the Euroregion, Hasselt and its university are truly international.

Hasselt is situated at a stone's throw from cities such as Brussels, Liege (French speaking part of Belgium), Aachen (Germany) & Maastricht (the Netherlands), while Paris and London are all within a couple of hundred kilometres.

Hasselt University is situated on the Campus of Diepenbeek, which occupies an attractive 150 acre site in the middle of Limburg's green belt. It is two kilometres west of the town centre of Diepenbeek, a residential town of nearly 17 500 inhabitants, and four kilometres east of Hasselt, which has a population of almost 70 000 and is the administrative and commercial centre of the province.

Hasselt is a dynamic student town where young people feel comfortable. The town organises all kinds of theatrical performances, music and pop festivals, either in the open air or in the well-known Ethias Arena. In addition, there is a very large movie theatre near campus. It is noteworthy that all public transport from campus to the town centre is completely free of charge for students, staff members and guests.

To taste Hasselt you can visit the Jenever (Gin) Museum as well as to the many cosy restaurants and cafés dotted all over the town. You can visit St. Quentin's Cathedral, the prestigious Fashion Museum, the Municipal Museum and the Virga Jesse Basilica, the beautiful Japanese Garden and the many green oases adorning the town. Hasselt is not only the capital of taste but also of the true "bon viveur"!



Hasselt University

Hasselt University is an independent, regional, public university. Its leading principles are academic freedom, ideological openness, priority to scientific ethics in a spirit of positive appreciation of the different ideological convictions and an international orientation.

Founded in 1971, Hasselt University is the youngest university in Belgium, but it has already achieved a reputation for excellence in academic programmes, learning methods and research.

Hasselt University stands out by its emphasis on an innovative approach of university education. The university is renowned for its specific educational methodology and for its contributions to the innovation of university education in Flanders. Both in teaching and in research the focus on international aspects is considered a priority.

Moreover, Hasselt University offers an excellent and fully flexible education which relies on carefully planned degree programmes, as well as on tutoring.

Teaching is organized through a combination of lectures, compulsory reading, laboratories, group projects and participation in ongoing research and consulting. You and your fellow students have to work together and you are held accountable for your progress, although the staff will always be pleased to help students. We consider active studying the most effective way of studying. Furthermore a lot of attention is devoted to the master thesis.

The successful student is trained, not only in course related knowledge and skills, but also in working within an interdisciplinary environment, for which communication skills are imperative. We aim at self-assured, independent and assertive professionals for whom analyzing issues, structuring information, working in international and multidisciplinary teams, entering into and chairing discussions and presenting ideas have become their second nature.

Hasselt University focuses its research on well-chosen spearhead fields. Research and education are closely linked: bachelor and master students participate in the university's research programmes from an early stage on. Master programmes are entirely based on the scientific spearhead fields of the university.



MASTER OF STATISTICS (FACULTY OF SCIENCES)



The need for well-trained biostatisticians, bioinformaticians, and epidemiological and public-health scientists is ever increasing, enhanced by the scientific revolution in molecular biology and genetics, and its impact on health and the environment.

The Master of Statistics of Hasselt University, with specializations: Biostatistics, Bioinformatics and Epidemiology & Public Health Methodology, keeps abreast with such evolutions. The master programme combines a solid study of principles of applied and biostatistics with up-to-date training in topics such as clinical trials, public health, longitudinal data, survival analysis, genetics, survey methodology... The specialization in Bioinformatics allows keeping an even closer pace with the more specific professional needs and skills required by the developments of the novel experimental techniques in molecular biology and genetics.

Students can choose between four specializations:

- *Bioinformatics*
- *Biostatistics*
- *Biostatistics ICP*
- *Epidemiology & Public Health Methodology*

Bioinformatics

Fast facts

Programme

Master of Statistics

Specialization

Bioinformatics

Language

English

Duration

2 year full-time

Start date

October

Learning method

Lectures, compulsory reading, laboratories, problem-based learning, group and individual projects.

Assessment method

Written exams, projects, essays, presentations, skills tests.

Option

Individual (reduced) programmes are possible. You are free to combine courses from different specializations to create your own profile. Requests for individualized programme and an application for exemptions should be formally submitted to the Examination Board, along with a clear motivation and justified by the requested documents.

Further information

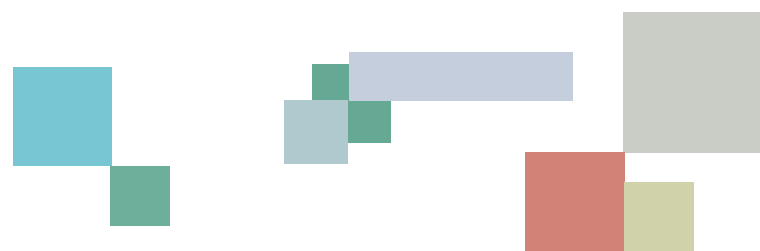
Website: <http://www.uhasselt.be/statistics>

Programme Manager: Mrs. Martine Machiels

E-mail: martine.machiels@uhasselt.be

“Bioinformatics was my eminent choice. Research areas like analysis of protein and gene expression together with advanced programming courses have driven my decision. The content of our courses was always rich and the experience we got through practice was huge. Bioinformatics has changed my professional life. I started as a pure mathematician. However, as soon as I discovered the application areas of the methods I switched to applied mathematics. A strength of this specialization is the combination of computer science and statistics. Another asset is the combination of individual and group work. It really was a challenge. Now, thanks to my master degree I can continue as a doctorate student within the I-Biostat group.”

Tatsiana Khamiakova, Belarus



Strengths of the Master of Statistics: Bioinformatics

The rapid evolution in scientific research in genomics and proteomics continuously requires new knowledge and skills. Besides a working knowledge of molecular biology, there is the need for a specialized knowledge of, and applied skills in database management, computer programming, statistical techniques and knowledge discovery & integration.

The Master of Statistics: Bioinformatics prepares graduates in such a way that they:

- are able to design and analyze experiments aimed at obtaining genomic and proteomic data;
- possess the necessary knowledge and skills to develop, understand and create bioinformatics software tools and databases;
- become self-assured, independent and assertive professionals for whom analyzing an issue, structuring information, working in international and multidisciplinary teams, conducting and chairing discussions and presenting ideas have become second nature.

Bioinformatics: the right choice for you?

As well as the standard admission requirements (see page 22) you should:

- hold an academic bachelor obtained from a Belgian university, in mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering to be directly admitted
- hold a bachelor degree in: mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering, medicine, sociology, psychology, artificial intelligence, biotechnology from other universities, with a basic but sufficiently strong background in mathematics and statistics. The Examination Board of the programme will evaluate each application individually concerning the applicants academic record. Depending on the diploma obtained previously, students may have to enroll for a preparatory programme.

What are your career prospects?

Over the years graduates have found positions in:

- biomedical research institutes
- biotech & pharma industry
- academia (Ph D)
- ...

Course outline

Check the summary on page 9.

Biostatistics

Fast facts

Programme

Master of Statistics

Specialization

Biostatistics

Biostatistics ICP

Language

English

Duration

2 year full-time

Start date

October

Learning method

Lectures, compulsory reading, computer practice, problem-based learning, group and individual projects.

Assessment method

Written exams, projects, essays, presentations.

Options:

- Individual (reduced) programmes are possible. You are free to combine courses from different specializations to create your own profile. Requests for individualized programme and an application for exemptions should be formally submitted to the Examination Board, along with a clear motivation and justified by the requested documents.
- Scholarship for the ICP Biostatistics of the Flemish Interuniversity council (VLIR-UOS). Candidates must not be older than 35 year. Their fully completed application form and requested documents should be returned to the VLIR administration in Brussels no later than the 1st of February. Candidates will be notified by VLIR-UOS after the meeting of the Selection Committee (May-June). More detailed information on requirements and application forms are available from: www.uhasselt.be/statistics/.

Further information

Website: <http://www.uhasselt.be/statistics>

Programme Manager: Mrs. Martine Machiels

E-mail: martine.machiels@uhasselt.be

“Hasselt University had been one of the best things ever happening in my life. The university boasts of excellent and hard working lecturers who usually went far beyond what was required of them. The Master of Statistics is extremely rich in content. The classes are reasonably small to allow for high level interaction between students and lecturers. The teaching and non-teaching staffs are warm, cordial and awesome. Furthermore, the programme ensures that one is guaranteed a promising and successful career in the future.”

Samuel Iddi, Ghana

Strengths of the Master of Statistics: Biostatistics

Sound training in modern statistical methodology, necessary for the design and analysis of biomedical and epidemiological studies, is provided.

In the specialization Biostatistics/Biostatistics IPC sound training in modern statistical methodology, necessary for the design and analysis of biomedical and epidemiological studies, is provided. Core biostatistics courses are Longitudinal Data Analysis, Survival Analysis, and Clinical Trials. Furthermore the specialization in Biostatistics is strongly research oriented.

The programme of students from developing countries, with a scholarship sponsored by the University Development Cooperation Section of the Flemish Interuniversity Council (VLIRUOS), is adapted to their specific needs and interests in the specialization Biostatistics ICP.

Biostatistics: the right choice for you?

As well as the standard admission requirements (see page 22) you should:

- hold an academic bachelor obtained from a Belgian university, in mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering to be directly admitted
- hold a bachelor degree in: mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering, medicine, sociology, psychology, artificial intelligence, biotechnology from other universities, with a basic but sufficiently strong background in mathematics and statistics. The Examination Board of the programme will evaluate each application individually concerning the applicants academic record. Depending on the diploma obtained previously, students may have to enroll for a preparatory programme.

What are your career prospects?

Over the years graduates have found positions in:

- biomedical research institutes
- pharmaceutical industry
- government
- healthcare
- academia (Ph D)
- ...

Course outline

Check the summary on page 9.



Epidemiology and Public Health Methodology

Fast facts

Programme

Master of Statistics

Specialization

Epidemiology and Public Health Methodology

Language

English

Duration

2 year full-time

Start date

October

Learning method

Lectures, compulsory reading, laboratories, problem-based learning, group and individual projects

Assessment method

Written exams, projects, essays, presentations, skills tests

Option

Individual (reduced) programmes are possible. You are free to combine courses from different specializations to create your own profile. Requests for individualized programme and an application for exemptions should be formally submitted to the Examination Board, along with a clear motivation and justified by the requested documents.

Further information

Website: <http://www.uhasselt.be/statistics>

Programme Manager: Mrs. Martine Machiels

E-mail: martine.machiels@uhasselt.be

“This specialization at Hasselt University enables one to have the confidence in dealing with real life statistical problems. The courses are designed so that students will have the chance to work in groups, which makes the atmosphere more friendly and easy to cope with, and learn from one another. There is a wonderful computational facility with up to date statistical software packages. The teaching staff is so friendly that makes one feel at ease and has the opportunity to be taught by some of the best professors of statistics in the world. With the completion of the Master in Statistics, many of my friends and me have continued our studies to a Ph D level in different universities. I greatly recommend students to join this programme and explore the world of statistics at its best.”

Abel Tilahun, Ethiopia

Strengths of the Master of Statistics:

Epidemiology and Public Health Methodology

The specialization Epidemiology & Public Health Methodology offers a professionally-oriented programme with emphasis on epidemiology, modeling of infectious diseases and microbial risk assessment.

Epidemiology and Public Health Methodology: the right choice for you?

As well as the standard admission requirements (see page 22) you should:

- hold an academic bachelor obtained from a Belgian university, in mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering to be directly admitted
- hold a bachelor degree in: mathematics, physics, computer sciences, chemistry, biology, life sciences, (bio, business, civil)-engineering, medicine, sociology, psychology, artificial intelligence, biotechnology from other universities, with a basic but sufficiently strong background in mathematics and statistics. The Examination Board of the programme will evaluate each application individually concerning the applicants academic record. Depending on the diploma obtained previously, students may have to enroll for a preparatory programme.

What are your career prospects?

Over the years graduates have found positions in:

- public health institutes
- Food Safety agencies
- epidemiology departments
- government
- academia (Ph D)
- ...

Course outline

Check the summary on page 9.



COURSES: 1st year master					
	Bioinformatics	Biostatistics	Biostat ICP	Epidemiology	Credits
Regression	x	x	x	x	15
Analysis of variance	x	x	x	x	
Concepts of probability and statistics	x	x	x	x	
Project : Learning from data	x	x	x	x	7
Correlated and multivariate data	x	x	x	x	12
Discrete data analysis	x	x	x	x	
Nonparametric methods	x	x	x	x	
Project: Discovering associations	x	x	x	x	7
Molecular biology	x				16
Computer programming	x				
Database management	x				
Project: Basic bioinformatics	x				
Disease mapping		x			5
Topics in biometry			x		5
Survey methods				x	5
Data management in statistics		x	x	x	3/14
Concepts of Bayesian inference	x	x	x	x	
Optional subject		x	x	x	
Total ECTS credit points	60	60	60	60	
COURSES: 2nd year					
	Bioinformatics	Biostatistics	Biostat ICP	Epidemiology	Credits
Medical biology	x	x	x	x	3
Project: Multivariate data analysis	x	x	x	x	3
Individual thesis project	x	x	x	x	14
Genetic epidemiology	x	x			3
Computer intensive methods	x				31
Data mining for bioinformatics	x				
Advanced programming	x				
Analysis of protein expression	x				
Computer intensive methods for bioinformatics	x				
Computational biology	x				
Project: Analysis of gene expression	x				
Bayesian data analysis		x	x	x	10
Applied data modeling		x	x	x	
Project: Epidemiology		x	x	x	
Principles of statistical inference		x	x		24
Foundation of linear models		x	x		
Longitudinal data analysis		x	x		
Survival analysis		x	x		
Clinical trials		x	x		
Project: Longitudinal data analysis		x	x		
Project: Advanced modeling techniques		x	x		
Advanced topics in clinical trials		x			3
Data mining				x	27
Environmental epidemiology				x	
Modelling infectious diseases				x	
Disease mapping				x	
Topics in epidemiology				x	
Microbial risk assessment				x	
Project: Incomplete data				x	
Optional subject	x		x		6/3
Total ECTS credit points	60	60	60	60	

Master of Management (Faculty of Business Economics)



An all-round integrated management training has become a must for those who wish to develop the full potential of their capabilities in a rapidly changing international business environment.

Such training is needed to enable graduates to function optimally in organizations and to take managerial responsibility, even more so in the context of the dynamic international markets. Our Master of Management programme basically comes down to such integrated management training. It offers a balanced approach in which conceptual backgrounds and practical applications are blended.

Our staff is specialized in the different fields of interest, which guarantees the quality of our programmes. Our Master of Management degree is well known and acknowledged nationally and internationally for its added value. The programme has had a decisive impact on its graduates.

Students can choose between two specializations:

- *Corporate Finance*:* focus on financial management on corporate level and in an international context.
- *Management Information Systems:* focus on organization and management of information systems, on business function- and corporate level. Aspects of economic sciences and informatics are integrated in the curriculum. Both majors are problem-solving oriented programmes.

** Will be substituted by another specialization in 2011-2012.*

Fast facts

Programme

Master of Management

Specialization

Corporate Finance or Management Information Systems

Language

English

Duration

1 year full-time

(+ preparatory programme for non-economic degree)

Start date

September

Learning method

A combination of lectures, case studies & practical applications in the field of management.

Assessment method

Master thesis, papers and exams

Strengths of the Master of Management

The Master of Management degree programme aims to develop the following competences:

- to identify, define and solve economic and managerial problems in an expert manner.
- to apply theoretical knowledge and problem-solving methods & techniques in a flexible and creative way.
- to evaluate the available information in order to arrive at well-grounded solutions.
- to assess the feasibility of solutions in a multicultural context.
- to demonstrate communication skills which are appropriate to implement decisions.
- to make active contributions to the development of team projects.

Furthermore students are to acquire the learning competences and learning attitudes that enable them to take part in autonomous and lifelong learning. They can evaluate their own learning processes critically in the cognitive, affective, social, moral and ethical fields.

Master of Management: the right choice for you?

The need for an integrated management training does not only apply to students of (business) economics, but also to university graduates in non-economic subject areas, such as engineers, lawyers, psychologists, etc. The Master of Management programme is set up especially to accommodate these different groups: graduates from both economic and non-economic subject areas can participate, be it that those from non-economic fields first will have to pass a preparatory programme that is tailored to their specific background.

All applicants should hold at least a university diploma or a diploma of higher education equivalent to a (academic) bachelor degree in economic or applied economic sciences, commercial and business sciences or equivalents of these degrees. For other bachelor degrees, the Examination Board will consider the applications individually. Depending on the diploma you obtained previously, you may have to do a preparatory programme.

"I had a great experience taking the master degree in MIS here at Hasselt University, Belgium. This programme provides significant tools that I have used to improve the quality of my work and enrich my knowledge in several ways. The university and course facilitators strive to bring practical experience into the academic environment through both discussion topics and lectures and they encourage the sharing of professional experiences among their students."

Sofian A. Kassaymeh, Jordan

What are your career prospects?

This programme should enable students to function optimally within organizations and to assume management functions, especially in the context of dynamic international markets.

Alumni occupy prominent functions in companies all around the world. They testify to the dynamism of our high level training. Graduates with the specialization Corporate Finance (CF) will become financial experts dealing with financial decision making on corporate level. Graduates with the specialization Management Information Systems (MIS) become ICT consultants or ICT project managers. Aspects of economic sciences and informatics are integrated in the curriculum.

Further information

Website: <http://www.uhasselt.be/english/management/>

Programme Manager: Mrs. Rachel Moreau

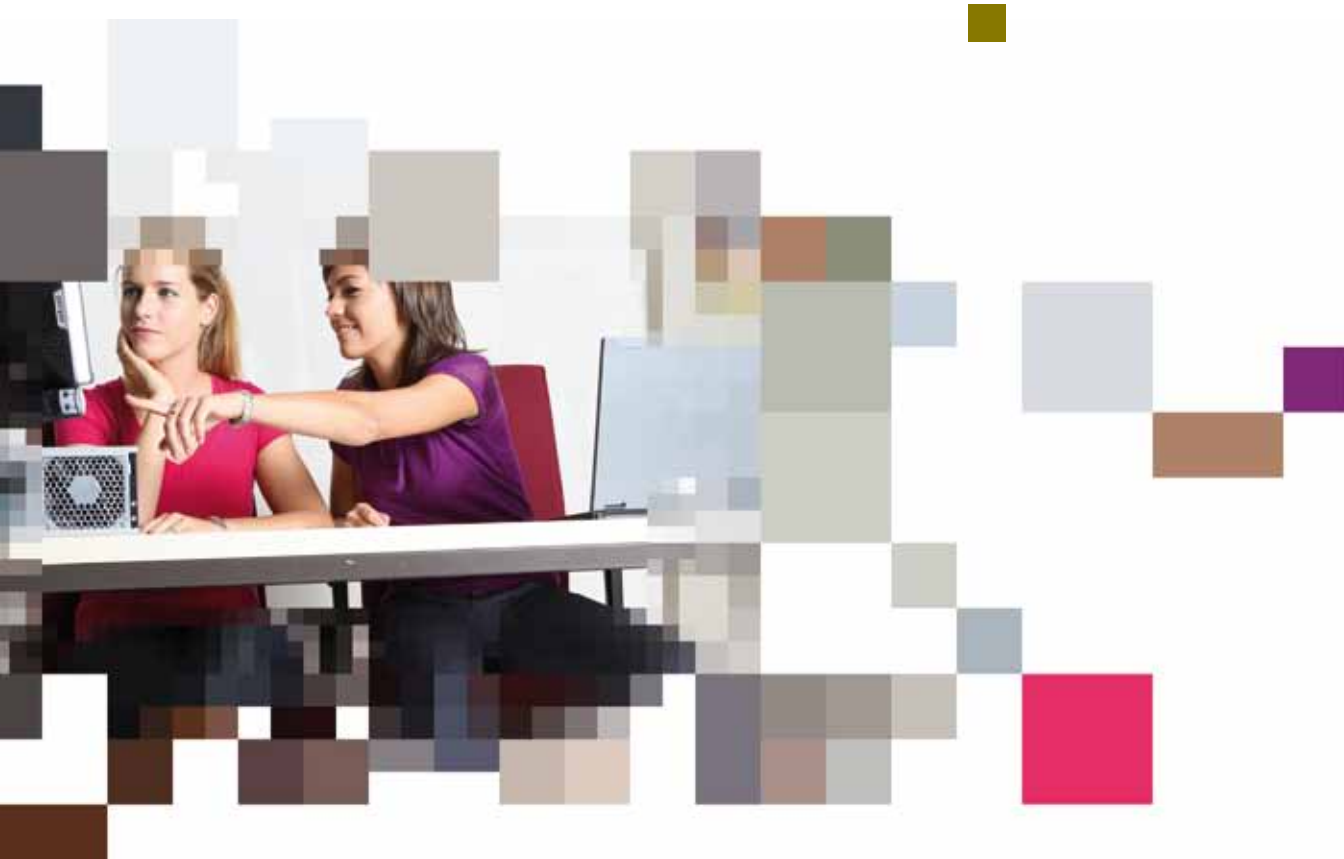
E-mail: rachel.moreau@uhasselt.be

COURSES	Corporate Finance*	Management Information Systems	Credits
COMMON (COMPULSORY) COURSES			
Strategic marketing	x	x	6
Innovation and value chain management	x	x	6
SPECIALIZATON COURSES			
Knowledge discovery management	x		6
International financial management and financial derivatives	x		6
Advanced management accounting	x		6
Entrepreneurial finance	x		6
Corporate governance	x		6
Business process modeling		x	6
ICT-management		x	6
E-business strategy		x	6
Strategic information management		x	6
ERP systems		x	6
Master project	x	x	18
Total ECTS credit points	60	60	

*Will be substituted by another specialization in 2011-2012.

<http://www.uhasselt.be/studyguide/>

Master in Applied Economic Sciences: Business Engineering in Management Information Systems (Faculty of Business Economics)



This master programme focuses on the development, the implementation and management of information and information systems in business functions and on corporate level. In the curriculum, aspects of economic sciences, business engineering and informatics are integrated. A special focus is on Management Information Systems (MIS) and on Management.

This master programme is an international programme where international students will also share cultural experiences and international business aspects.

Fast facts

Programme

Master in Applied Economic Sciences:
Business Engineering in Management Information Systems

Specialization

Management

Language

English

Duration

2 years full-time
(+ preparatory programme for non-economic degree)

Start date

September

Learning method

A combination of lectures, case studies & practical applications in the field of management and informatics

Assessment method:

Master thesis, papers and exams

Further information

Website: <http://www.uhasselt.be/business-engineering-IS>

Programme Manager: Mrs. Rachel Moreau

E-mail: rachel.moreau@uhasselt.be

Strengths of the Master in Applied Economic Sciences: Business Engineering in Management Information Systems

This master programme basically comes down to an integrated management training. It offers a balanced approach in which conceptual backgrounds and practical applications are blended. Teaching methods include a combination of lectures, case studies and practical tasks in a management context.

In this two year master programme, the economic and managerial knowledge and insights, acquired in the bachelor programme of Business Engineering in MIS, are explored in depth. The master programme consists of courses in business engineering (30 ECTS), in business informatics (42 ECTS), in management (24 ECTS) and a master thesis (24 ECTS). The courses will be taught in English.

Business Engineering in Management Information Systems the right choice for you?

The need for an integrated management training does not apply to students of (business) economics, but also to university graduates in non-economic subject areas, such as engineers, lawyers, psychologists. Business Engineering in Management Information Systems is set up especially to accommodate for these different groups: graduates from both economic and non-economic subject areas can participate, be it that those from non-economic fields will have to pass a preparatory programme that is tailored to their specific background.

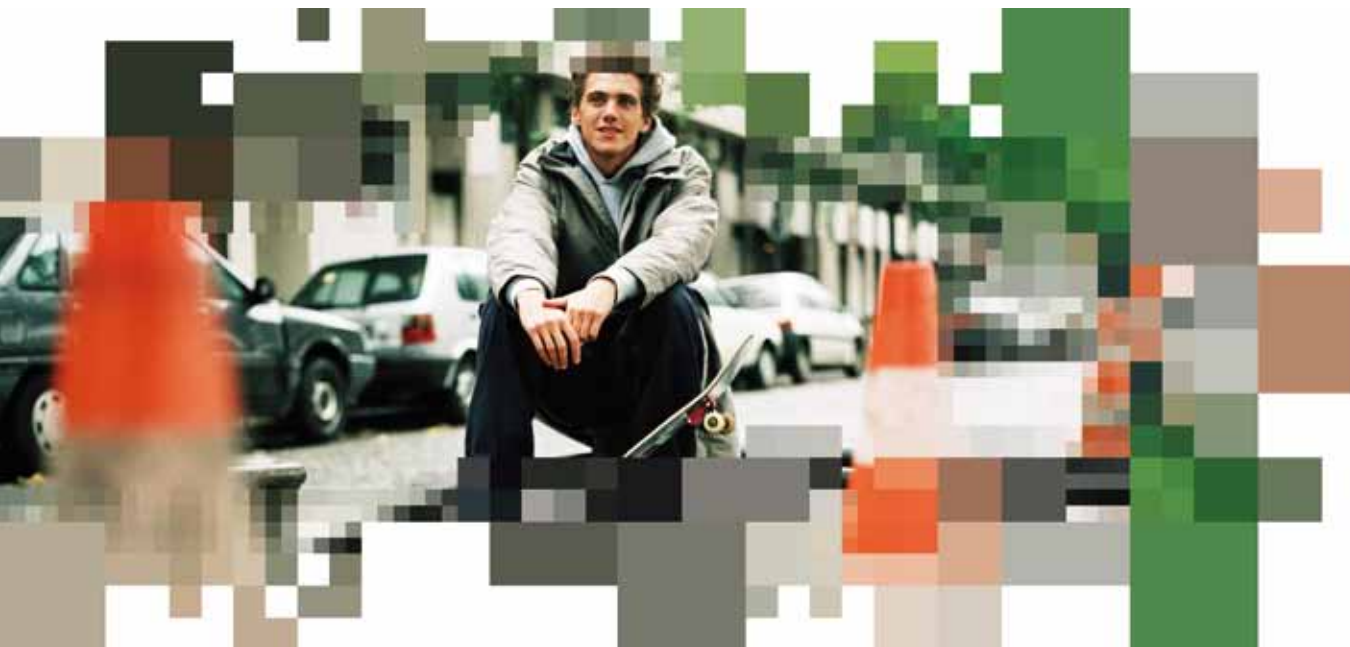
All applicants should hold at least a university degree or a degree of higher education equivalent to a (academic) bachelor degree in Applied Economic Sciences: Business Engineering in Management Information Systems or equivalents. For other bachelor degrees, the Examination Board will consider the applications individually. Depending on the diploma you obtained previously, you may have to do a preparatory programme.

Candidates with a non-EEA (European Economic Area) degree should have a sufficient academic level to be proven by a GMAT-score of 550 or more.

COURSES	credits
1st year	60
COURSES IN BUSINESS ENGINEERING	21
Innovation and value chain management	6
Advanced operational research	3
Supply chain management	6
Correlated and multivariate data	6
COURSES IN BUSINESS INFORMATICS	24
Knowledge discovery management	6
E-business strategy	6
ERP systems	6
Business process modelling	6
COURSES IN MANAGEMENT	15
Strategic marketing	6
Advanced management accounting and control	6
Master thesis: research plan	3
2nd year	60
COURSES IN BUSINESS ENGINEERING	9
Corporate governance (incl. professional ethics)	3
Integrated logistics	6
COURSES IN BUSINESS INFORMATICS	18
Strategic information management	6
ICT management	6
ICT governance	6
COURSES IN MANAGEMENT	33
International financial management and financial derivatives	6
Business game	6
Master thesis	21
TOTAL ECTS credit points	120

<http://www.uhasselt.be/studyguide/>

Master of Transportation Sciences (Interfaculty programme)



A modern and international transport system is important for moving people, goods and information in a local, regional and (inter)national context. Moreover it is connected to economic growth! A continuous increase in traffic volumes, for passenger transport as well as freight forwarding transport, leads to major challenges concerning land use, impact on urban areas, traffic safety issues, traffic flow, atmospheric pollution and travel behaviour.

The international Master Programme in Transportation Sciences of Hasselt University is a multidisciplinary master programme, which trains students and practitioners to identify transportation and traffic safety problems and to come up with solutions by themselves, taking into account several parameters: economical, social, urban, environmental and infrastructural. Several transport and traffic safety issues are thus highlighted in an overall multidisciplinary perspective.

Since transportation is a cross-border field, it is also important to put the focus on the international aspects related to this domain. As a Master in Transportation Sciences we offer you the opportunity to regularly exchange views with experts from home and abroad. For instance, within the master programme there are teachers, both nationally and internationally recognized as an expert in their field.

Fast facts

Programme

Master of Transportation Sciences

Specialization

Mobility Management or Traffic Safety

Language

English

Duration

2 years full-time

Start date(s)

September

Learning method

A combination of (guest) lectures, research projects, assignments (papers and presentations).

Assessment method

Written and oral exams, final papers, master thesis, group participation, 100% attendance.

Options

A part-time semi-distance learning programme

Further information

Website:

<http://www.uhasselt.be/master-of-transportation-sciences>

Programme Manager: Isabel Thys

E-mail: nadine.smeyers@uhasselt.be

Strengths of the Master of Transportation Sciences

The Master of Transportation Sciences at Hasselt University is unique in that:

- it is a multidisciplinary master programme, which will pay attention to economical, social, urban, environmental and infrastructural aspects;
- it takes sustainable development into account;
- it focuses on transportation, as well as on traffic safety in an international context;
- it is taught by international renown professors from leading universities, specialized in traffic safety and transportation;
- it includes a study tour during which students learn about and see the current best practice in solving transport problems in different countries;
- students and practitioners from different countries exchange information about transport and traffic safety problems, solutions and strategies;
- students can choose between a part-time semi-distance learning programme or a full-time on site programme.

Master of Transportation Sciences: the right choice for you?

All applicants should hold at least a university diploma or a diploma of higher education equivalent to a (academic) bachelor degree in traffic safety, transportation/mobility

management or equivalents of these degrees. For other bachelor degrees, the Examination Board will consider the applications individually.

Depending on the diploma you obtained previously, you may have to do a preparatory programme during the first semester of the first master year. This can be combined with the master programme.

What are your career prospects?

Graduates are working in different functions in different organizations:

- government services
- (public) transport companies
- insurance companies
- consultancy
- research institutes
- academia (Ph D)
- ...

“The Masters is specific to the transportation field of work. The residential blocks are excellently organized. The course administration team is very helpful, easily accessible and approachable. The course material is generally very good and helpful“

Lee Quincey, UK

COURSES		Credits
1st year		
COMPULSORY COURSES		
Urban management		6
Cost-benefit analysis and environmental economics		6
Infrastructural projects		6
Methods and techniques of spatial research		6
Traffic flows		6
Current topics in traffic science (capita selecta)		6
Infrastructural impact (Traffic Safety)		6
Activity-based modelling (Mobility Management)		6
Traffic and travel behaviour		6
Case study		6
OPTIONAL COURSE		6
Total ECTS credit points		60

COURSES			
2nd year	Mobility Management	Traffic Safety	Credits
COMPULSORY COURSES			
Environmental policy and cre	x	x	6
Intelligent transport systems	x	x	6
Master thesis	x	x	30
SPECIALIZATION COURSES			
Influencing of behaviour		x	6
Management of transportation Companies	x		6
OPTIONAL COURSES			
	x	x	12
Total ECTS credit points			
	60	60	

<http://www.uhasselt.be/studyguide/>

Master of Transportation Sciences (by distance learning)



Fast facts

Degree

Master of Transportation Sciences.
Degree awarded by Hasselt University (Belgium)
If students complete less than the total programme they receive a certificate per module completed.

Language

English

Start date(s)

September or February

Application deadline

15th September for 1st semester
15th January for 2nd semester

Participating universities

Hasselt University (Belgium), Maribor University (Slovenia), NHL University Leeuwarden (The Netherlands), Universidad de Valencia (Spain).

Learning method

lectures and assignments, e-learning platform

Assessment method

oral and written exams, assignments and master thesis

Planning

maximum two modules per semester

Further information

Website:

<http://www.uhasselt.be/master-of-transportation-sciences-by-distance-learning>

Programme Manager: Isabel Thys

E-mail: nadine.smeyers@uhasselt.be

Strengths of the Master of Transportation Sciences, by distance learning

The Master of Transportation Sciences at Hasselt University is unique in that:

- it is multidisciplinary study in transportation and traffic interacting with social, urban, economical, environmental and infrastructural parameters;
- it takes sustainable development into account;
- it focuses on transportation, as well on traffic safety in an international context;
- it is taught by internationally renowned professors from leading universities, maintaining a balance between theory and application;
- it is a forum for exchanging information about transport and traffic safety problems, and formulating solutions and strategies with other practitioners from different countries;
- distance learning: each semester students will attend a one week residential block, held in turn at one of the partner universities in Europe or attend classes from home with video conferencing technologies;
- it can be a starting point for new career opportunities in your current or new job.

“The Master at Hasselt University is - I think- the only at European level, able to provide a multidisciplinary approach of transport issues and to provide an international network of students and professionals with expertise in traffic sciences“

Alessio Sitran, Italy

“I have chosen the Master in Transportation Sciences at Hasselt University because I think it is the only programme in Europe which is able to provide a multidisciplinary approach to the understanding of the complexity and further development of transport issues. Concerning my country, there is a specific need to test solutions and practices on road safety with foreign experiences. A gap still exists if compared with other European countries. Thus, the master at Hasselt University is a unique opportunity for developing expertise and taking advantage of the international network of students and professionals.”

Alessio Sitran, Italy

Master of Transportation Science, by distance learning: the right choice for you?

We welcome students, employers and career-minded individuals – working in the field of traffic (safety) and transportation. Practitioners, who want to earn a specialised qualification and broaden/update their knowledge and work experience in respect of the rapidly changing transportation field, are our target group.

All applicants should hold at least a university diploma or a diploma of higher education equivalent to a (academic) bachelor degree in traffic safety, transportation/mobility management or equivalents of these degrees. For other bachelor degrees, the Examination Board will consider the applications individually. Depending on the diploma you obtained previously, you may have to do a preparatory programme during the first semester of the first master year. This can be combined with the master programme.

Modules of the Master of Transportation Sciences by distance learning

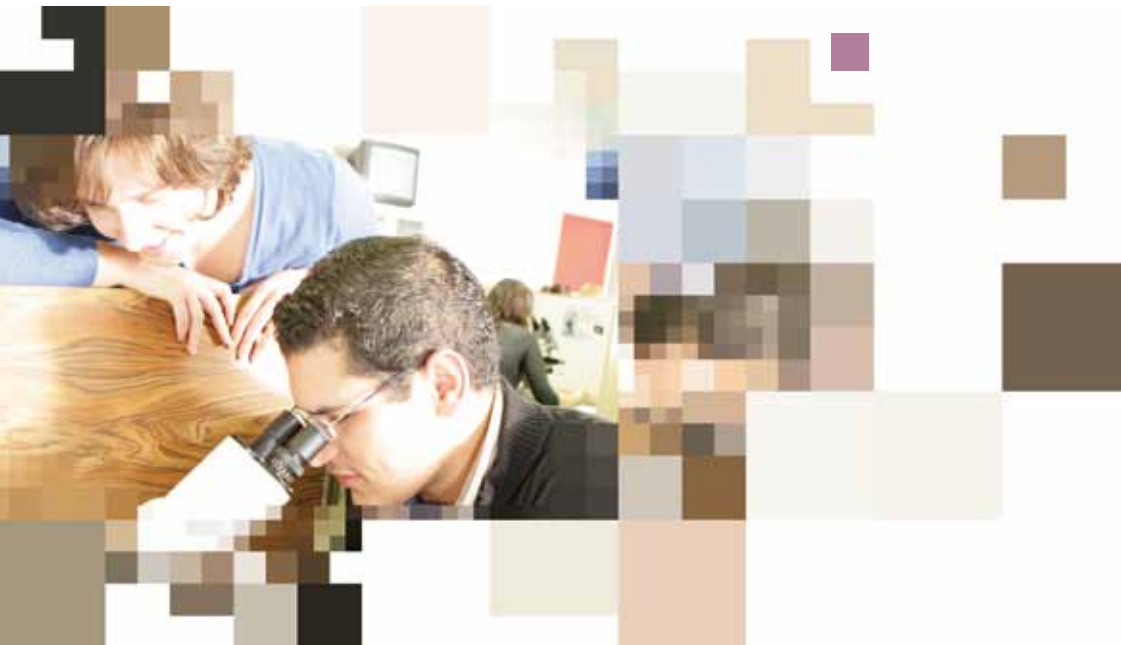
		Credits
Module 1	Environmental & economic studies	12
Module 2	Logistics management	12
Module 3	Road user behaviour	12
Module 4	Traffic surveys and transportation modeling	12
Module 5	Spatial research and urban policy	12
Module 6	Road safety	12
Module 7	Spatial research and urban policy	12
Optional Module	Infrastructural impacts	12
	Management of transportation companies	12
Master project	Master thesis	30
Total ECTS credit points		120

A description of the modules can be found on <http://www.uhasselt.be/transportationsciences> under Study Programme.

- The modules are organized in a two-year cyclic schedule. Two modules per semester.
- To gain the master degree you must successfully pass the seven core modules, one optional module and the master thesis, accumulating 120 credit points (ECTS). In general, you will spend your first two years studying eight taught modules.
- To gain module certificates you must successfully pass one or more modules.
- Each semester students have to attend a one-week residential block, held in turn at one of the partner universities in Europe: Hasselt University (Belgium), Maribor University (Slovenia), NHL University Leeuwarden (the Netherlands), Universidad de Valencia (Spain). The residential block is planned at the beginning of each semester. Before the start of each residential block students will receive detailed information about the programme and practical information on the city.



Master of Biomedical Sciences (Faculty of Medicine)



The 21st century started as the century of molecular life sciences. Ever since the 1990s when scientists greatly improved our insights into the molecular basis of life processes, the life sciences have developed at a tremendous rate. Various breakthroughs, including the mapping of the human genome, are leading to the rapid development of inter-relationships between formerly autonomous scientific disciplines such as genetics, medicine, pharmacology, biology, and environmental science. This creates new prospects for the academic and business worlds. Investments are huge: all over the world, universities, research institutes and businesses are launching new research initiatives, teaching programmes and business related activities. In accordance with its Lisbon Strategy, aimed at a more ambitious reinforcement of Europe's knowledge-based economy, the EU strongly supports further development of genomics and biotechnology. And these are only two of many future scientific developments in the realm of the life sciences, including proteomics, bioinformatics, bioelectronics and imaging, all of which have numerous applications for human health, wellness and prosperity.

The Master of Biomedical Sciences focuses on state-of-the-art methodology, knowledge, insight and academic skills, enabling graduates to unravel the molecular mechanisms of health and disease as independent researchers. The programme provides students with the knowledge and skills required for the proper design of a scientific research project.

Three specializations are offered: Bioelectronics and Nanotechnology, Environmental Health Sciences, Clinical Molecular Sciences.

Fast facts

Programme

Master of Biomedical Sciences

Specialization

Bioelectronics and Nanotechnology

Language

English

Duration

2 years full-time

September

Learning method

Lectures, assignments, project learning

Assessment method

Oral exam

Options:

In the framework of a double-degree programme with Cranfield University (UK), selected students can be given the opportunity to obtain an additional diploma of Master of Applied Sciences during the second year of their studies.

Bioelectronics & Nanotechnology

Strengths of the Master of Biomedical Sciences: Bioelectronics and Nanotechnology

The central themes of this programme are: biomaterials, the interface between biological and electronic systems (for example between neurons and integrated circuits) and the broad domain of biosensors. Nanotechnology is concerned with creating these structures at the scale of individual biomolecules.

Bioelectronics & Nanotechnology: the right choice for you?

The programme targets:

- bachelor graduates interested in life sciences who have a strong motivation to pursue a career as a scientist in this field;
- graduates who have completed an academic or higher education (bachelor's or master's) in the field of life sciences (including cell biology, molecular medicine, biomedical sciences, biochemistry, biotechnology and molecular biology) who want to extend their knowledge and skills to build a solid basis for a research career.

What are your career prospects?

Over the years graduates have found positions in:

- governments,
- centres of public health,
- environmental agencies,
- genetics and public relations agencies
- pharmaceutical and biotechnology industries
- research institutes

"I decided to subscribe for a master programme with specialization Bioelectronics and Nanotechnology at Hasselt University for several reasons. First of all: the field of research is absolutely interesting and seminal. Active learning in small groups makes learning intensive, you can participate as a student in research projects of the university.

Furthermore it is possible to continue after the master programme with a Ph D at Hasselt University."

Fabian Wilbers, Germany

Further information

Website: www.uhasselt.be/biomedical-sciences

Programme Manager: prof. dr. Patrick Wagner

E-mail: patrick.wagner@uhasselt.be

COURSES: 1st year		Credits
<i>All students:</i> Biophysics and chemistry Seminars and literature study on biomaterials		4 4
<i>Students with a medical, biomedical or biological background:</i> Electronics and data acquisition		4
<i>Students with a background in physics or chemistry:</i> Immunology and genetics		4
Biosensors		4
Chemistry of surfaces		4
Nano- and microsystems technology		4
Junior practical training blocks: chemistry, biomedical sciences, materials physics		21
Electives (selection of 3 courses with 3 ECTS credits each) Possibilities are e.g.: Complexity in bio systems, Radiation protection, Microfluorimetry & electrophysiology, Laboratory animal science, and Programming languages.		9
Electrical diagnosis techniques and active implants		3
Nanobiochemistry		3
Total ECTS credit points		60
COURSES: 2nd year:		Credits
Molecular bio-analytical methods		3
Soft matter theory		3
Functional molecule modeling		3
Scientific writing and planning of master project		3
Master project (Senior practical training) and Master thesis		48
Total ECTS credit points		60

Environmental Health Sciences

Fast facts

Programme

Master of Biomedical Sciences

Specialization

Environment & Health

Language

English

Duration

2 years full-time

Start date

September

Learning method

problem-based and project-learning

Assessment method

oral and written exams, assessment of practical skills and presentations

Further information

Website: www.uhasselt.be/english/biomedical-sciences

Programme Manager: Prof. dr. Jan Colpaert

E-mail: jan.colpaert@uhasselt.be

Strengths of the master of Biomedical Sciences: Environmental Health Sciences

The aim of the Environmental Health Sciences specialization is to achieve an understanding of the mechanisms of interaction between humans and their environment. The central theme of this curriculum is therefore to study the complex interactions between the genetic make-up of an individual and environmental factors that may have an impact on human health. This programme is offered at Hasselt University in cooperation with Maastricht University.

Students learn how to obtain new scientific knowledge in the field of molecular life sciences and how to apply this knowledge, e.g. for prevention, diagnosis and therapy. The master programme integrates teaching and training within the scope of cross-border molecular biomedical research and the opportunity for students to participate in this ongoing research.

Environment & health: the right choice for you?

The Biomedical Sciences Master programme targets:

- bachelor graduates interested in life sciences who have a strong motivation to pursue a career as a scientist in this field;
- graduates who have completed an academic or higher education (bachelor's or master's) in the field of life sciences (including cell biology, molecular medicine, biomedical sciences, biochemistry, biotechnology and molecular biology) who want to extend their knowledge and skills to build a solid basis for a research career.

What are your career prospects?

In view of the present worldwide investments in life sciences, the labour market prospects are very good. Governments, centres of public health, environmental agencies, genetics and public relations agencies, and pharmaceutical and biotechnology industries are regularly recruiting new staff members. In general, Biomedical Sciences master's graduates qualify for positions in research at universities, hospitals, pharmaceutical and biotechnology industries, contract research organisations and governmental agencies. Graduates may also continue with doctoral studies (Ph D).

"The placement at Medtronic (an American biomedical enterprise with a factory in Maastricht) and the participation at several conferences will always remain in my memories. I do not at all regret my choice, since my job fascinates me more and more every day."

Frederik Horemans, Belgium

COURSES: 1st year		Credits
Molecular mechanisms of health and disease		12
Genes, environment and health		12
Junior practical training & Optional courses		36
Total ECTS credit points		60
COURSES: 2nd year		Credits
Development of a research project proposal		12
Introduction to environmental and health policy		
Senior practical training) and Master thesis		48
Total ECTS credit points		60

Clinical Molecular Sciences

Fast facts

Programme

Master of Biomedical Sciences

Specialisation

Clinical Molecular Sciences

Language

English

Duration

2 years full time

Start date

September

Learning method

problem-based and project-learning

Assessment method

oral and written exams, assessment of practical skills and presentations

Further information:

Website: www.uhasselt.be/biomedical-sciences

Programme Manager: prof. dr. Veerle Somers

Email: veerle.somers@uhasselt.be

Clinical Molecular Sciences: the right choice for you?

The Biomedical Sciences Master programme targets:

Strengths of the Master of Biomedical Sciences: Clinical Molecular Sciences

This specialization emphasises on the acquisition of knowledge, insight and practical skills with regard to the molecular basis of human disease. The central themes of the curriculum are molecular mechanisms of disease and molecular diagnostics and therapy in disease. This programme is jointly organized with Maastricht University.

Students learn how to obtain new scientific knowledge in the field of molecular life sciences and how to apply this knowledge, e.g. for prevention, diagnosis and therapy. The master programme integrates teaching and training within the scope of cross-border molecular biomedical research and the opportunity for students to participate in this ongoing research.

“The combination of theory and practice is unique in this master. Your personal interest is very much taken into account. We are no numbers here: everybody knows everybody. Attending international conferences was a very new experience to me. I hope to find a job in the research world, because that is what interests me most.”

Rob Vansweetvelt, Belgium

- bachelor graduates interested in life sciences who have a strong motivation to pursue a career as a scientist in this field;
- graduates who have completed an academic or higher education (bachelor's or master's) in the field of life sciences (including cell biology, molecular medicine, biomedical sciences, biochemistry, biotechnology and molecular biology) who want to extend their knowledge and skills to build a solid basis for a research career.

What are your career prospects?

In view of the present worldwide investments in life sciences, the labour market prospects are very good. Governments, centres of public health, environmental agencies, genetics and public relations agencies, and pharmaceutical and biotechnology industries are regularly recruiting new staff members. In general, Biomedical Sciences master's graduates qualify for positions in research at universities, hospitals, pharmaceutical and biotechnology industries, contract research organisations and governmental agencies. Graduates may also continue with doctoral studies (Ph D).

COURSES: 1st year		Credits
Molecular mechanisms of health and disease		12
Molecular diagnostics and therapy		12
Experimental animal research		3
Junior practical training & Optional courses		33
Total ECTS credit points		60
COURSES: 2nd year		Credits
Fundamental and applied research including health care, life sciences, management, quality assurance and clinical research		12
Scientific practical training) and Master thesis		48
Total ECTS credit points		60

ADMISSION REQUIREMENTS

Hasselt University applies the same policy to its international students as for its Belgian students, though there are some additional requirements. Hasselt University will assess students individually on the basis of their previous academic record and qualifications. General requirements concern diploma requirements and language requirements. Specific admission requirements were mentioned in the programme overview (*supra*).

Diploma requirements

Students should hold at least a university diploma or degree certificate or a diploma of higher education equivalent to a bachelor degree (180 ECTS credit points). The Examination Board of the programme evaluates each application individually concerning the applicant's academic record. Depending on the diploma you obtained previously, you may have to do a preparatory programme during the first semester of the first master year. This can be combined with the master programme.

Language requirements

Candidates who wish to register in an English-language Master's programme will need to demonstrate good command of English, both written and spoken. English-language skills need to be confirmed, by a recent score on the Test of English as Foreign Language (TOEFL) or the International English Language Testing Systems (IELTS) or any recognized proficiency test.

- a TOEFL-score report (paper based: score 550 or more, computer based: score 213 or more, internet base: score 79-80).
- IELTS-certificate (overall band score 6.0).

The English Language Test can be waived on the basis of an interview or if English-language proficiency is otherwise proven (e.g. if education or part of it was in English).

How to enrol?

Online pre-registration is compulsory. The Examination Board will only consider duly completed application files.

The application file consists of the following items:

- 1 duly completed application form: <http://www.uhasselt.be/applicationForm>.

- 2 A photocopy of the obtained diplomas or degree certificates in the original language.
- 3 A recent passport photograph.
- 4 Translation of university diploma(s) in English by an official translator.
- 5 Certified translated transcripts of records in the original language, for all programmes completed at university level. The university of origin should provide the transcript of records and a statement in English in which is explained how the assessment marks assigned are to be converted into the standardized US-system or EU-standard ECTS-system. The translation of the transcript of records in English must be made by an official translator.
- 6 English-language skills need to be confirmed (see language requirements).
- 7 APS-certificate: From the academic year 2007-2008 onwards all students from the P.R. China will have to obtain a certificate of academic screening issued by the Academic Evaluation Centre (APS) of the German Embassy in Beijing before being allowed to enrol at any higher education institution, language course or other preparatory course in Flanders. The APS certificate is also required for obtaining a student visa to Belgium. More information on APS can be found at their website www.aps.org.cn.
From the academic year 2009-2010 on the cost of the APS-screening will be refunded to all Chinese students enrolled at Hasselt University.

Deadline for submission 2010-2011

EEA-students	Non-EEA-students
15th of September 2010	1st of February 2010 for Master of Statistics
	1st of May 2010

Applicants will be notified of the Examination Board's decision as soon as possible. Applicants, who are admitted to the programme, will be asked to confirm their application and to pay the tuition fee.

MONEY MATTERS

Tuition fees & health insurance (2009-2010)		
	EEA-students	Non-EEA-students
	Non-Belgian	
Master of Management	€564.30	€6000
Master of Transportation Sciences	€564.30	€6000
Master of Statistics	€1672	€1672
Master of Biomedical Sciences	€1672	€1672
Health insurance	/	€360

Reduced registration fees are possible for students:

- for specific social reasons
- from some developing countries within the framework of a cooperation between universities or other institutions

Special registration category: fixed fee PH D or doctorate

- €269.90 in the first year of registration and in the year of defence, no fee for in-between years

Health insurance

Covering the full period of stay in Belgium, starting on the day of arrival, health insurance is compulsory for all non-EEA-students. The premium amounts to €30/month or €360 for 12 months. The premium for health insurance must be paid together with the tuition fee.

Payment

Applicants, who are admitted to the programme by the Examination Board, will be asked to confirm their application and to pay the tuition fee. Registration of international students is only possible after payment of the tuition fee, augmented with the premium for health insurance (only for non-EEA-students). Payment in cash or by credit card is not possible. As long as a student has not paid all outstanding registration fees the registration is suspended.

Living expenses

The following are the approximate costs per annum (10 months) at Hasselt University. These amounts do not include travel expenses, nor expenses of (touristic) trips in Belgium and surrounding countries.

Cost Type	Costs in EURO (€)
Accommodation	€2 000 to €3 500
Catering	€2 000 to €2 500
Local Transport (Hasselt-area)	For free, once you have a Student ID-card
Leisure Time	€600
Textbooks etc.	€600
Other expenses	€500
TOTAL	€5 700 up to €7 700





International office

Student mobility

tel.: + 32 11 26 81 79

fax: + 32 11 26 85 99

e-mail: internationaloffice@uhasselt.be

International marketing

tel.: + 32 11 26 80 15

fax: + 32 11 26 80 19

e-mail: sarah.verlact@uhasselt.be



Hasselt University | Agoralaan Gebouw D
BE-3590 Diepenbeek | Belgium | www.uhasselt.be/en