



Studying at Magdeburg-Stendal University  
of Applied Sciences

## Buddy programme



Every semester, Magdeburg-Stendal University of Applied Sciences welcomes many new international students. Our student mentors – known as 'buddies' – help them to find their feet at the University, in the event of language difficulties and in everyday life.

More information about the buddy programme can be found here:  
[www.hs-magdeburg.de/buddyprogramm](http://www.hs-magdeburg.de/buddyprogramm)

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## Imprint

Publisher	Magdeburg-Stendal University of Applied Sciences Postfach 3655, 39011 Magdeburg, Germany
Campus addresses	Magdeburg campus Breitscheidstrasse 2, 39114 Magdeburg, Germany  Stendal campus Osterburger Strasse 25, 39576 Stendal, Germany
Website	<a href="http://www.hs-magdeburg.de">www.hs-magdeburg.de</a>
Editor	Jana Schieweck
Photos	Bastian Ehl, Harald Krieg, Matthias Piekacz, Julia Heinrich Press Office at Magdeburg-Stendal University of Applied Sciences
Design	Carsten Boek, Press Office
Editorial deadline	August 2015

All information as at the editorial deadline. For any changes, please visit the website: [www.hs-magdeburg.de](http://www.hs-magdeburg.de)

## Foreword



Dear readers,

With around 50 degree programmes in the fields of health and social sciences, media and design, technology, business and languages, you can follow the course of your choice at Magdeburg-Stendal University of Applied Sciences. Join us and lay the foundations for your future academic and professional career. As well as innovative and unique programmes such as Water Management, Applied Childhood Studies, Journalism, Safety and Hazard Defence or Interaction Design, we also offer conventional courses such as Business Administration, Social Work and Mechanical Engineering.

Accreditation agencies have substantiated the quality of our internationally recognised Bachelor and Master's degrees. Dual track programmes are also possible. Our close relationships with regional enterprises in particular ensure that course content is kept up to date and also improve the employment prospects of our graduates.

Besides teaching specialist skills and methodology, Magdeburg-Stendal University of Applied Sciences provides a comprehensive general education programme, which allows individuals to gain key social skills and which is open to all students.

Courses on offer cover a diverse spectrum of first cycle Bachelor's degree programmes that equip students for working life based on a combination of high-quality teaching and the latest research findings. At postgraduate

level, we offer an exclusive range of Master's degree and continuing education programmes to build on existing and applied expertise.

Electing to study at our University obviously also means choosing the place where you will spend time over the years to come. Magdeburg-Stendal University of Applied Sciences has excellent facilities in which 4,400 students in Magdeburg and a further 2,200 in Stendal learn and live. Conditions are also tailored in particular to the needs of students with families or special circumstances.

Demand for our graduates from different professional fields and the rising number of applications from other federal states in Germany and from abroad underline the growing attractiveness of Magdeburg-Stendal University of Applied Sciences.

I look forward to welcoming you to the 'Hochschule Magdeburg-Stendal'.

Anne Lequy  
Rector

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Water Management	●	●	MD	23+30

MD = Magdeburg campus SDL = Stendal campus

## Magdeburg – an academic setting with high quality of life



Students here benefit from the following:

- The park-like Herrenkrug campus with excellent facilities and 37 square metres of meadow for every student
- The chance to meet around 18,000 other students at the Otto-von-Guericke University and Magdeburg-Stendal University of Applied Sciences
- More than 100 sporting activities offered by the University Sports Office
- A wide choice of meal options in the 'Mensa' (University cafeteria) and the student Café Frösi along with plenty of space for coffee and study
- Two multiplex cinemas, arthouse cinemas, a repertory theatre, a renowned puppet theatre and a wide range of bars and clubs
- The University Library with approximately 220,000 items and many journal subscriptions, e-books and electronic journals

Students here benefit from the following:

- The opportunity to visit Magdeburg's Gothic cathedral and the museum
- Many possibilities for recreation and leisure in the city's large parks or by the River Elbe
- Tour the Romanesque 'Monastery of our Lady' and go to concerts and exhibitions
- Housing at affordable prices even in the city centre and prime locations
- Use buses and trams with your semester ticket
- Attend top-level handball matches (SC Magdeburg) and soccer matches with the long-established 1. FC Magdeburg club
- Learning at a family-friendly University that enables students to combine their studies with family responsibilities



## Stendal – a Hanseatic city in the heart of the country



### Students here benefit from the following:

- A location in an historic Hanseatic city in the centre of the charming Altmark area
- New facilities for approximately 2,200 students in two departments
- Many University sporting activities such as football, volleyball, basketball, badminton, Pilates or even oriental dance
- A wide choice of meal options in the 'Mensa' (university cafeteria) and the student F.E.T. bar as well as room to study and chat
- An active Students' Union ('StuVe') that organises parties, a theatre group, a photography club and a campus newspaper as well as running a music rehearsal space for vibrant student life
- Attend the traditional University ball and splendid summer festival

### Students here benefit from the following:

- A strong international perspective with innovative degree programmes and intensive foreign language courses
- Museums, cinema showings and theatre performances, concerts, readings, swimming, festivals, pub nights, student clubs and much more
- Excellent rail connections for speedy travel to Berlin, Magdeburg and Hanover and the Baltic Sea
- The University Library with approximately 40,000 items and many journal subscriptions, e-books and electronic journals,
- Housing at affordable prices in the city centre or on the outskirts
- Clear university structures with the opportunity for contact with professors on-site outside classes

## Information on applications and enrolment

### Requirements

A higher education entrance qualification is a general prerequisite for admittance to a programme of study. Individual courses of study may have other specific admission requirements. See [www.hs-magdeburg.de/en/studies](http://www.hs-magdeburg.de/en/studies)

International applicants and all who have acquired their certificates in a country other than Germany are asked to apply via uni-assist e.V. As a joint institution of German universities, uni-assist carries out an expert examination of all admission requirements, for which it charges a fee. Once uni-assist has positively verified that all admission requirements have been met, it forwards the application to us. Magdeburg-Stendal University of Applied Sciences then makes the decision concerning admission. The admissions and application procedure at Magdeburg-Stendal University of Applied Sciences is free of charge. More information can be found on the uni-assist website: [www.uni-assist.de](http://www.uni-assist.de)

Please note: This information does not apply to applicants whose documents have already been checked and whose eligibility for university entrance has been recognised.

International applicants must provide proof of educational qualifications that permit study in Germany (school-leaving certificate, certificate of university attendance). The anabin database provides information about the validation of foreign educational qualifications. Visit [www.anabin.de](http://www.anabin.de).

The language of instruction at Magdeburg-Stendal University of Applied Sciences is German for nearly all programmes and courses. Foreign applicants must prove they have adequate knowledge of German. Evidence of the necessary German language skills can be provided in the form of:

- the 'Kleines Deutsches Sprachdiplom' or 'Großes Deutsches Sprachdiplom', or
- the Goethe Institute's 'Zentrale Oberstufenprüfung'

- the 'Sprachdiplom der Kultusministerkonferenz Stufe II' or
- the 'deutsche Sprachprüfung für den Hochschulzugang (DSH Stufe 2)', or
- 'TestDaF, Niveaustufe 4' (all four parts of the examination) or
- proof of having passed the entrance examination at a preparatory college (please see below for more details).

Applicants who are unable to fulfil the specified admission requirements may contact a preparatory college ('Studienkolleg'). These specifically prepare foreign applicants for a course of study in Germany. Magdeburg-Stendal University of Applied Sciences does not have its own preparatory college. The preparatory college responsible for our institution is located at Anhalt University of Applied Sciences in Köthen. More information can be found on the website of Anhalt University of Applied Sciences in Köthen: [www.hs-anhalt.com/study/landesstudienkolleg](http://www.hs-anhalt.com/study/landesstudienkolleg)

An overview of all preparatory colleges in Germany can be found here: [www.studienkollegs.de](http://www.studienkollegs.de)

It can take several weeks for uni-assist e.V. to check application documents. We therefore recommend submitting your application by the following deadlines:

<u>Courses of study requiring an aptitude test</u>
Winter semester: 15 April
Summer semester: 31 October
<u>Courses of study with restricted admission</u>
Winter semester: 31 May
Summer semester: 30 November
<u>Courses of study without any admission restriction</u>
Winter semester: 31 July
Summer semester: 31 January

Information regarding current application deadlines can be found online or obtained from the General Academic Counselling unit.

The application must include:

- a completed Magdeburg-Stendal University of Applied Sciences application form for a Bachelor's or Master's degree programme and
- evidence of entitlement to be admitted to higher education (school-leaving certificate, or evidence of a university degree obtained abroad, or evidence of study periods spent at foreign universities) and
- proof of sufficient knowledge of the German language, and
- a CV in tabular form (in German)

Before you enter Germany you must observe certain formalities (e.g. apply for a visa). Even in Germany itself, a few visits to public offices will be necessary (Residency Registration Office, Foreigners Office). Also, you must have health insurance in Germany.

Information and advice on the above issues and other matters such as accommodation and life in Magdeburg and Stendal can be found on the web pages of our International Office.

If you need further information, you are welcome to contact our General Academic Counselling unit in person.

### Enrolment

All applicants who fulfil the requirement for courses of study without any admission restriction will be admitted. For courses of study with restricted admission, there is an internal selection process. University admission and rejection notices are sent out by post in early August for the winter semester and in early February for the summer semester.

Notices of admission contain important information about the subsequent procedure. When this procedure has been completed, student ID cards are sent out by post.

Please contact the University Registration Office if you have any questions about enrolment. Contact details are provided on page 31.

### General Academic Counselling

The General Academic Counselling unit supports potential students when choosing their subject specialisms, provides information about potential career opportunities and answers queries about applications, admissions and programme requirements. Assistance is also available here to any students of the University who are experiencing study-related issues and/or considering a change of study programme.

Course advisor:

Dr. Monika Lehmann

Tel.: +49 (0)391 886 41 06

E-mail: [studienberatung@hs-magdeburg.de](mailto:studienberatung@hs-magdeburg.de)

If you have any questions regarding a specific course of study such as about course content, assessment criteria, programmes and specialisations or wish to apply for a higher semester, professors in the relevant department will be happy to advise.

### International Office

The International Office provides information and advice to our students, alumni, professors and other staff who intend to pursue their careers abroad as well as those who come from outside Germany to study or work at Magdeburg-Stendal University of Applied Sciences. It is the gateway for all international activities at Magdeburg-Stendal University of Applied Sciences.

Head of the International Office:

André Nollmann

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E-mail: [andre.nollmann@hs-magdeburg.de](mailto:andre.nollmann@hs-magdeburg.de)

For further information, please visit the International Office web pages: [www.hs-magdeburg.de/en/international](http://www.hs-magdeburg.de/en/international)

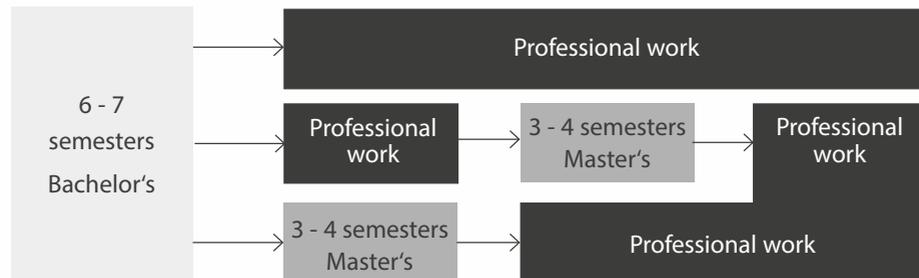
## Academic Bachelor and Master's degrees Advantages for students

The aim of multi-stage programmes is to make the courses on offer more international and to boost student mobility in a global market for education. This system ensures that degrees are recognised as equivalent, regardless of whether a Bachelor's or Master's degree was acquired at a traditional university or from a university of applied sciences.

Studying for a Bachelor's degree at Magdeburg-Stendal University of Applied Sciences typically takes six or seven semesters. As a standard degree, a Bachelor's is a first professional degree and is therefore an entry-level

qualification to a profession for the majority of students. Because the standard period of study is five years for consecutive courses of study, Master's degree programmes at Magdeburg-Stendal University of Applied Sciences have a duration of three or four semesters. Admission to a Master's degree programme is not automatic. A Bachelor's academic qualification is required first and there may be other prerequisites determined by the relevant regulations.

The following diagram shows the multi-stage system in a simplified form:



Courses on offer  
Bachelor's degree programmes

## Applied Childhood Studies

Degree: Bachelor of Arts

Standard course duration: 6 semesters

Place of study: Stendal

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

The programme in Applied Childhood Studies conveys fundamental knowledge from pedagogy, psychology, sociology, health and political sciences and social pedagogy relating to children and young people. Graduates of this discipline are able to work in direct contact with children and their families as well as in relevant supporting institutions within the education, social and health sectors and also to represent the interests and needs of children to the relevant political authorities.

## Applied Statistics

Degree: Bachelor of Science

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Aptitude test

Joint degree programme with the Otto-von-Guericke University Magdeburg

Language of instruction: German

Statistical processes play an important role in many fields. These are relevant to making decisions about developing medical treatments and new pharmaceuticals, measuring pollutants in environmental engineering and in quality control, for example. The degree programme consists of a basic grounding in mathematics and in-depth study of statistics combined with practical exercises throughout. There is also a strong emphasis on information technology with relevant courses tailored to the needs of a statistician.

## Business Administration

Degree: Bachelor of Science

Standard course duration: 6 semesters

Place of study: Stendal

Course start: winter semester

Admission restrictions: yes

Closing date for applications: 15 July

Language of instruction: German

Studying Business Administration prepares graduates for management responsibilities in companies and opens up a wide range of subsequent opportunities. Students qualify for demanding roles in all spheres of business and in middle management. They also acquire high-level decision-making and soft skills and are thus able to find employment in diverse sectors – for example, in industrial enterprises, in service companies of all sizes or in non-profit organisations – in a variety of business administration positions.

## Business Administration (dual)

Degree: Bachelor of Arts

Standard course duration: 7 semesters

Place of study: Stendal

Course start: winter semester

Admission restrictions: no

Special admission requirements: contract with a suitable placement provider

Language of instruction: German

The central objective is to prepare students for demanding roles in all spheres of business and middle management. By regularly switching between university and industry, they will receive a particularly thorough practical grounding. In addition, the dual nature of the course enables students to acquire a high level of competency and social skills alongside specialist commercial knowledge. Upon successful completion of their studies, they are able to enter the world of work without the need for a long period of familiarisation.

## Business Engineering

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

Unlike programmes in pure electrical or mechanical engineering, Business Engineering includes commercial components. Occupations where these two areas intersect are becoming more and more important. Students therefore receive a basic grounding in business studies and also choose to focus on either electrical engineering or mechanical engineering as well. Graduates may work in product development, consulting or logistics, for example.

## Civil Engineering

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

Civil Engineering includes planning, calculating, constructing and overseeing engineered structures both above and below the ground. During their studies, students familiarise themselves with a wide variety of building materials and how they are used to construct buildings or roads. They perform building calculations and examine individual components in the lab. Graduates go on to work in leadership roles in construction, develop products for the construction industry or plan structural/civil engineering projects.

## Civil Engineering (dual)

Degree: Bachelor of Engineering

Standard course duration: 9 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Special admission requirements

Language of instruction: German

The dual track programme leads to a university qualification as a civil engineer and also enables the student to qualify for a construction-related occupation. Vocational training takes place outside the University and is organised by Magdeburg's construction education centre ('Baubildungszentrum Magdeburg'). The degree programme consists of three semesters of practical training and six semesters of theoretical study. During the first six semesters, students alternate each semester between studying and training. The final three semesters are spent entirely at the University.

## Early Childhood Education and Care - Practice, Management, Research

Degree: Bachelor of Arts

Standard course duration: 6 semesters

Place of study: Stendal

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

Childhood is a very important part of human development. Educational specialists are needed to support this phase in practice from an academic basis. Students of Childhood Pedagogy are prepared for direct educational work with children from their arrival at a children's day-care establishment up to the age when they leave. They are also trained for working with families, working in guidance roles, and in promoting networks in the social environment. In addition, they are taught leadership competencies and research skills.

## Electrical Engineering

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

This future-oriented course of studies prepares students for work in the modern electrotechnical fields of power, communications and industrial control engineering. Students can choose to gain further knowledge in electric and renewable energy systems, industrial automation technology or IT and communication networks. They may go to develop industrial robots, plan power plants and energy grids, design control systems for industrial production facilities or research future communications technologies, for example.

## Electrical Engineering (dual)

Degree: Bachelor of Engineering

Standard course duration: 9 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Special admission requirements: contract with a suitable placement provider

Language of instruction: German

Electrical engineers combine creativity with technical expertise. Developing industrial robots, planning power plants and energy grids, designing control systems for industrial production or researching the communications technologies of the future – these are just some of the career opportunities for students to progress. Combining university study and structured practical phases provides the optimum blend of theoretical knowledge and practical application, making it easier to enter the professional world.

## Health Promotion and Health Management

Degree: Bachelor of Arts

Standard course duration: 6 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

Health promotion is becoming increasingly important due to our performance-oriented society and demographic change. Qualified specialists are needed who are able to cope with the increasing demands on our health care system. The degree programme builds specialist knowledge and professional competencies that give students an academic basis for their subsequent professional work in hospitals or for health insurance companies, as well as for educational institutions, workplaces or in public health services.

## Industrial Design

Degree: Bachelor of Arts

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter and summer semesters

Admission restrictions: no

Aptitude test

Language of instruction: German

The programme objective is to acquire professional qualifications in the conceptualisation of complex technical products. Here students learn to develop industrial products in such a manner that modern technical possibilities are maximised through intuitive product handling. Students design furniture, for example, sports products such as skateboards and roller skis or even machine interfaces. Graduates become freelancers, start up their own businesses or are employed in design studios or large companies.

## Information Technology – Smart Systems

Degree: Bachelor of Science

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Aptitude test

Joint degree programme with the Otto-von-Guericke University Magdeburg

Language of instruction: German

Developing smart systems that increasingly can make decisions independently – such as parking assist systems or the autopilot on aircraft – is gaining in importance all the time. The IT industry has been experiencing strong growth for some years. This degree programme is aimed at students who are interested in interdisciplinary issues arising from engineering. This is because conceptualising, designing and manufacturing smart systems requires knowledge that involves multiple fields. The course conveys specialist knowledge in fields such as computer science, electrical engineering and information and communications technology.

## International Technical Communication and Translation

Degree: Bachelor of Arts

Standard course duration: 6 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

This programme combines a broad range of areas such as language, technology and business. It prepares students for working in diverse fields of employment in national and international companies, organisations and public bodies whether in translation, technical authoring or corporate communications. Students spend one semester abroad to improve their language skills.

## Journalism

Degree: Bachelor of Arts

Standard course duration: 6 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

This programme conveys fundamental knowledge of the media as well as application-oriented skills for the preparation, planning and implementation of media projects. Trainee editorial teams and projects are a focus of the course and give students the opportunity to apply the basic knowledge they have obtained to specific practical issues and to produce media products (print, audio, television, online). It is possible to gain further knowledge in a choice of fields: international journalism, media management, economics or society and politics.

## Mechanical Engineering

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

Studying Mechanical Engineering is the foundation for careers in a host of different fields. Graduates not only go on to work in mechanical engineering and automotive manufacturing, but also in plant construction and electrical engineering, precision engineering (e.g. space engineering and medical technology) and other metal processing industries. Knowledge of mathematics, physics and computer science is taught. Students are able to choose between two areas of further specialisation: engineering technology and production engineering.

## Mechanical Engineering / Composite Technologies (dual)

Degree: Bachelor of Engineering

Standard course duration: 9 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Special admission requirements: contract with a suitable placement provider

Language of instruction: German

On this dual track programme, students learn all about fibre composite materials from the manufacturing, processing and design of fibre composite components through to recycling issues. These innovative materials are used in the automotive sector, aeronautics, the construction industry, sports equipment or power engineering. Combining studying with practical phases allows students to apply the theoretical knowledge they gain from lectures and seminars directly in a practical environment whilst familiarising themselves with the world of work at an early stage.

## Psychology of Rehabilitation

Degree: Bachelor of Science

Standard course duration: 6 semesters

Place of study: Stendal

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

When a cancer patient successfully completes their medical treatment but is fearful that a tumour will recur, rehabilitation psychologists are needed. The psychology of rehabilitation is a separate branch of care alongside primary and clinical acute care. This programme covers diagnostics, psychology and health sciences as well as other knowledge. Students can go on to work in a rehabilitation clinic or a workshop for disabled people, for example.

## Recycling and Waste Management

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

Every year, the average German produces approximately half a tonne of refuse. Students learn about waste prevention, recycling, disposal and treatment. The focus is on conserving natural resources and protecting both people and the environment. After successfully completing this programme, graduates are able to plan and build equipment and systems in the waste management sector or to work in environmental areas of industry or for monitoring authorities.

## Safety and Hazard Defence

Degree: Bachelor of Science

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Aptitude test

Joint degree programme with the Otto-von-Guericke University Magdeburg

Language of instruction: German

Major fires and floods are rare occurrences, but are events for which society must be prepared. Scenarios are developed for this which represent conceivable future developments and allow remedial measures and appropriate management strategies to be derived. Working out such measures and strategies requires scientific and technical skills. In the programme, the necessary expertise is relayed for effectively dealing with disaster situations. Areas of application include safety engineering, fire safety, working for the fire service or the police, engineering firms, expert and assessment offices or for the technical authorities.

## Sign Language Interpreting

Degree: Bachelor of Arts

Standard course duration: 8 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: yes

Special admission requirements

Language of instruction: German

This programme prepares students to work professionally as a linguistic conduit between the hearing, who use a spoken language, and the deaf and hearing-impaired, who prefer sign language as a means of communication. Employment opportunities can be found wherever the hearing and the deaf meet and communicate, for example at work, in health care, within public authorities, in courts of law, at cultural events or in the media. Basic knowledge (60 class hours) of German sign language is a prerequisite for entry to the programme.

## Social Work

Degree: Bachelor of Arts

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: yes

Language of instruction: German

Social work serves to relieve and resolve social problems that confront the community, social groups and individuals. This course of studies teaches the requisite academic and specialist skills, knowledge and methods for employment in the sphere of social work. Social work can involve working with children and young people, in the health care sector, in the probationary service or on educational projects. Social workers and social education workers support families, senior citizens or immigrants, for example, to exercise their rights and develop their own resources.

## Systems Engineering

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

This programme addresses the area where mechanics, electronics and information technology intersect. In subjects such as mathematics, technical physics, computer science, robots or methodical design, the foundations are laid for future work in analysing, designing and operating electromechanical systems with human-machine interfaces. Graduates design aircraft, operate complex systems such as power stations or are employed in the medical technology sector.

## Water Management

Degree: Bachelor of Engineering

Standard course duration: 7 semesters

Place of study: Magdeburg

Course start: winter semester

Admission restrictions: no

Language of instruction: German

Our water bodies are used for water supply, energy generation, irrigation, navigation, as well as for the purposes of leisure and recreation. On this programme, students consider all ecological, technological, process engineering and structural aspects of water as a medium. Taking water samples, performing lab analysis and measuring pH values mean that this programme has a high practical element. Graduates find employment with public bodies, water and sanitation boards, and engineering firms or in research and teaching, for example.



Courses on offer  
Master's degree programmes

## Civil Engineering

Degree: Master of Engineering

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: summer semester

Special admission requirements

Language of instruction: German

The master's course in Civil Engineering is a practical course with two fields of concentration: constructive engineering as well as geotechnical and traffic engineering. The focus of the concentration on constructive engineering lies in the design, construction and calculation of supporting structures in building construction and bridge construction. Gaining in-depth knowledge of civil and traffic engineering prepares students for current and future demands in geotechnics, in transportation and bridge engineering as well as in environmental geology. Graduates will have access to challenging roles in the planning, design, calculation, construction and inspection of building structures.

## Ecological Engineering

Degree: Master of Science

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: winter and summer semesters

Special admission requirements

Language of instruction: German

Ecological Engineering is the translation of ecological principles into societal and technical action: the adaptation of construction techniques, material flow cycles, material flow management and spatial symbioses of material and energy users, so that they are benign to nature. The course equips students to develop, on a scientific foundation, concepts and techniques for the sustainable management of vital resources like water, soil and biomass and for the restoration and reclamation of ecosystems and for decentralised supply and waste disposal. The programme prepares students for roles in the field of research but also in public administrative bodies, in the private business sector and in banks and insurance corporations.

## Electrical Engineering – Building Services

Degree: Master of Engineering

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: summer semester

Special admission requirements

Language of instruction: German

Using your mobile phone to switch on your washing machine or the DVD recorder when you are away from home, heating water using solar energy or operating a microwave on wind power – the buildings of the future could make our lives easier and supply the energy required themselves. By exploring building energy systems and building communications systems, this programme trains specialists to work in fields that include the use of renewable technologies such as photovoltaics or in the field of system solutions for smart homes and industrial or automation technology.

## Energy-efficient Building Construction and Reconstruction

Degree: Master of Engineering

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: winter and summer semester

Special admission requirements

Language of instruction: German

The construction industry is going through a process of change towards greater energy efficiency and environmental friendliness. This has resulted in a need for experts. By addressing potential areas for energy saving, thermal insulation for construction, regenerative thermal supply and cost-effectiveness, specialists are equipped with the skills to plan and construct energy-efficient and passive buildings as well as to renovate existing structures to the highest level of energy efficiency.

## Engineering Design

Degree: Master of Arts

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: winter semester

Aptitude test

Language of instruction: German

Engineering Design combines the synergistic shaping forces of science, technology and art to solve complex future challenges. Design is the overarching function needed to develop sustainable, optimised products. This programme is aimed at designers with technical skills and technicians with design skills. It prepares students for work in technically oriented industrial design and/or the development of technical products involving design aspects. Students acquire particular competencies in integrated product design, bionics and system design.

## Entrepreneurial Risk Management

Degree: Master of Arts

Standard course duration: 4 semesters

Place of study: Stendal

Course start: winter semester

Special admission requirements

Language of instruction: German

Commercial activities are always associated with risk. This course of study therefore conveys specialist risk management knowledge and qualifies students to deal with tasks such as risk prevention, analysis and control. The degree opens up professional opportunities in production and service companies as well as in management across all industries. Graduates may be employed to plan and implement risk management systems or to advise on risk-related issues.

## Health Promoting Organisational Development

Degree: Master of Arts

Standard course duration: 4 semesters

Place of study: Magdeburg

Course start: winter semester

Special admission requirements

Language of instruction: German

Healthy and motivated employees form the foundation of successful companies and organisations. The programme imparts knowledge that helps businesses and organisations to design their structures, processes and services in a way that promotes health. The aim of Health Promotion through Organisational Development is to actively support employees in improving their own health and well-being whether that be through flexible working hours, healthy eating options or exercise.

## Interaction Design

Degree: Master of Arts

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: winter semester

Aptitude test

Language of instruction: German

Interaction Design addresses the development and design of complex products such as mobile apps, websites or navigation systems. The focus is on interactions between humans and objects in the design process. The programme is aimed at students in various professions who actively want to work on the design of new information and communications technologies. Opportunities include working in hardware and software product development, communications and media design or the game industry.

## Mechanical Engineering

Degree: Master of Science

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: summer semester

Special admission requirements

Language of instruction: German

Developments in mechanical engineering are continually leading to new insights and technologies with fields of work for engineers also diversifying all the time. In addition to extensive fundamental knowledge, students gain in-depth knowledge of development, calculation and simulation or production methods and systems. Given the course's broad-based content, graduates go on to work in various fields in the metal processing industry and related sectors such as automotive or precision engineering.

## Psychology of Rehabilitation

Degree: Master of Science

Standard course duration: 4 semesters

Place of study: Stendal

Course start: winter semester

Special admission requirements

Language of instruction: German

This programme examines professional, social, medical and psychological aspects of dysfunction, which affect participation in everyday life. It also provides a comprehensive insight into the system of rehabilitation assistance as well as quality assurance and evaluation. Students gain knowledge of psychological diagnostics and assessments together with a variety of strategies for intervention and therapeutic techniques. Career opportunities arise within rehabilitation clinics, therapeutic and psychiatric facilities, counselling centres and welfare organisations for children and young people.

## Safety and Hazard Defence

Degree: Master of Science

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start:  
winter and summer semesters

Special admission requirements

Joint degree programme with the  
Otto-von-Guericke University Magdeburg

Language of instruction: German

The Master's programme in Safety and Hazard Defence qualifies students for a variety of roles in the fields of safety and hazard prevention by imparting theoretical and technical knowledge and extending expertise in safety management and risk avoidance. Specialisms in fire protection and industrial safety equip students for practical work and research. On successful completion of the course, graduates take on executive and administrative roles in the fire service, technical authorities (e.g. fire, disaster and environmental protection) or in the manufacture of safety-related technologies or in safety management within companies.

## Social and Health Journalism

Degree: Master of Arts

Standard course duration: 4 semesters

Place of study: Magdeburg

Course start: winter semester

Special admission requirements

Language of instruction: German

This Master's degree programme is aimed at journalism graduates wishing to specialise in social and health issues as well as people working in social and health-related occupations who find themselves liaising with the media professionally or would like to do so. The course equips students with journalistic planning and organisational skills, trains them to produce media content and provides subject knowledge in the social and health care fields. After completing the course, they can take on challenging roles in radio, print, TV and online media as well as in public relations for social and health care companies.

## Social Work in an Ageing Society

Degree: Master of Arts

Standard course duration: 4 semesters

Place of study: Magdeburg

Course start: winter semester

Special admission requirements

Language of instruction: German

Higher life expectancy and a declining birth rate means that the number of older people is rising in Germany. Demographic change presents new challenges in social work. The objective of this course of study is to professionalise social work, particularly the ability to design and implement robust concepts for working with old people and cross-generationally. The course imparts in-depth knowledge of social work and gerontology as well as social research methodology. Students are trained for demanding roles in social and health care settings, care and occupational therapy as well as to represent the interests of older people.

## Water Engineering (international course)

Degree: Master of Engineering

Standard course duration: 3 semesters

Place of study:  
Magdeburg and La Coruña (Spain)

Course start: winter semester

Special admission requirements

Language of instruction: English

This international course is offered in conjunction with the University of La Coruña in Spain where the first semester is spent. The programme builds competences in the aspects of national and international water management planning processes, restoration ecology, river morphology and flow and process modelling. It prepares graduates for jobs in various areas of water management at an international level. Examples include roles with environment agencies and ministries, in private water industry or environmental protection companies, in engineering firms offering consulting and planning, and institutions, as well as in teaching and research.

## Water Management

Modelling, operation and renovation of water management equipment

Degree: Master of Engineering

Standard course duration: 3 semesters

Place of study: Magdeburg

Course start: summer semester

Special admission requirements

Language of instruction: German

Through this Master's degree programme, students gain expertise in areas such as hydrology, biotechnology, water supply, hydraulic engineering, wastewater engineering, recycling and waste management. The course prepares them for work in research and development, operations and the maintenance of hydraulic installations, water supply and wastewater treatment systems as well as in waste disposal and circular flow management. Graduates may work as water experts in developing countries and disaster zones, take on roles within research facilities, planning offices and water or sanitation boards or at a senior level within ministries, public authorities or agencies.

## Useful contact details

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### Magdeburg Student Services (Studentenwerk)

Point of contact for issues such as finance, accommodation, social aspects and advice  
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