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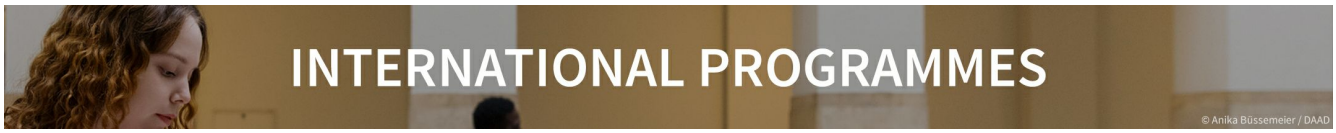

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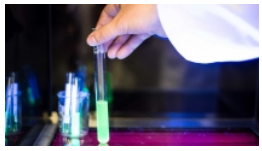
Master's degree

Master Materials Science and Engineering (MSc)

FH Münster University of Applied Sciences • Steinfurt




Overview

Degree	Master of Science
Course location	Steinfurt
Teaching language	• English
Languages	Most courses are held in English. German skills are not necessary for the application.
Full-time / part-time	• full-time
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	31 May
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	The four-semester Master's degree course of study (held in English) provides a specialisation in Materials Science and Engineering. In general, the courses are held in the form of lectures accompanied by seminars and labs. It covers advanced chemical, physical and mechanical aspects of modern materials sciences and offers a solid basis for deepening both the scientific knowledge and its practical application. The first three semesters of study will cover core subjects including Solid State Physics, Dielectrics and Ceramics as well as Macromolecular Chemistry and Polymer Applications. These modules are mandatory. In addition, students will have to complete a research project in each of the three semesters. The final semester is reserved for the preparation of the Master's thesis, which can be completed in collaboration with research institutes or industrial partners. This course of study

	prepares for a career in research and development or for a PhD programme. For further information, please refer to our flyer or contact the Department of Chemical Engineering, Engineering Physics, or the Institute of Business Administration and Engineering.

Course Details

Course organisation	**There are three compulsory modules** (8 CPs each): Solid State Physics and Semiconductors, Dielectrics and Ceramics, Macromolecular Chemistry and Polymer Application. Three research projects (4 CPs each) shall be completed. **Examples of 14 elective modules in Chemistry (6 CPs each):** Chemical Nanotechnology, Technology of Coatings, Incoherent Light Sources, Life-Cycle Assessment, Advanced Physical Chemistry, Membrane Separations, Advanced Inorganic Chemistry, Chemical Technology of Materials, Analytics of Plastics and Polymers, Optical and Electrical Characterisation of Materials, Chemical Sensors, Aerosol- and Nanotechnology. **Examples of elective modules in Physics:** Quantum Statistical Physics, Biomedical Materials, Microscopy/Surface Science, Integrated Devices, Battery Production, Laserphysics, Laser Materials Processing, Quantum Sensors, Modelling and Simulation, Image Processing. **Examples of elective modules in Mechanical Engineering:** Innovative Materials **Examples of elective modules in Business Administration** Project Management, Business Simulation **Further elective courses** can be chosen with a maximum of 12 credit points in total. Examples of additional modules: Basics in Physics or Chemistry for engineers, German as a Foreign Language, Intercultural Communication and Competence The last semester is designed for the Master's thesis, typically performed in research and development departments in industrial companies and the final defence (30 credit points). In total, 120 credit points are necessary for graduation. » PDF Download
A Diploma supplement will be issued	Yes
Course-specific, integrated German language courses	Yes
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	Approx. 300 EUR

Costs of living	Approx. 1,000 EUR per month
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	A Bachelor's degree or equivalent in chemistry, chemical engineering, physics, mechanical and materials science, or a similar subject is required.
Language requirements	English skills of a minimum of B2 (according to the Common European Framework of Reference) are required. Options to prove your language skills: • Bachelor's degree in a study programme taught in English • IELTS score of 6.0 or better (other equivalent tests are accepted as well)
Application deadline	31 May
Submit application to	https://en.fh-muenster.de/materials-science/Bewerbung.php

Services

Accommodation	http://www.studentenwerk-muenster.de/en/housing/student-residences

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Annika Wesbuer
Bachelor of Science

The vision of being able to help shape the future persuaded me to study Materials Science and Engineering. In small groups, we learn practically by means of research. We develop innovative materials to create new technologies and increase their effectiveness - a great preparation for a successful start in my future career!

FH Münster University of Applied Sciences

FH Münster – University of Applied Sciences has a long tradition of education. Founded in 1971 following a merger of public and private schools of engineering and vocational training institutions, it is now one of Germany's largest and most successful institutions of its kind. The aim of FH Münster is to be the top address for practical education and research. Quality pervades all areas within the university and is the foundation upon which we build our excellent successes in teaching and research – we have the highest rate of third-party funding of any German university of applied sciences. It is quality that inspires companies to enter into strategic alliances and partnerships with the university. All of these attributes characterise the image of this modern, high-performing, and student-oriented university.

FH MÜNSTER

University location

FH Münster – University of Applied Sciences, with approx. 15,000 students and 13 departments / central research institutions, is located in Münster and in Steinfurt. Münster, the Westphalian city with around 320,000 inhabitants, is the ideal place to study, offering a wide range of leisure activities for more than 60,000 students enrolled at Münster's eight higher education institutions. In addition to many pubs, bistros, and bars, Münster also has numerous museums, theatres, and cinemas. A local recreation area around the Aasee is ideal for jogging and walking. Münster was the first city of its size to be awarded the title of the World's Most Liveable City and is regularly voted the bicycle capital of Germany. The following departments of FH Münster are located in Münster: the Münster School of Architecture, the Department o Civil Engineering, the Münster School of Design, the Department of Food – Nutrition – Facilities, the Münster School of Health, the Department of Social Work, the Münster School of Business, and the Münster School of Vocational Education (IBL).

Around 5,000 students study at the Steinfurt Campus. Embedded in Münsterland's park landscape, the tranquil district town of around 34,000 now presents itself as a business location with many medium-sized enterprises. The town also has lots of restaurants and pubs. Trains go from Burgsteinfurt station to Münster every hour. The journey takes around 40 minutes. The following departments of FH Münster are located in Steinfurt: the Department of Chemical Engineering, the Department of Electrical Engineering and Computer Science, the Department of Mechanical Engineering, Energy – Building Services – Environmental Engineering, the Department of Engineering Physics, and the Institute of Business Administration & Engineering.

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ITB

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