CONTACT

Your Contact

Dean of Studies
Prof. Dr. Hans-Christoph Mertins
E-Mail: mertins@fh-muenster.de

Study Coordinator
Kirsten Elfering M.Sc.
Tel.: +49 2551 9-62311
kirsten.elfering@fh-muenster.de

International Reception Service Team

International Office
Hüfferstraße 27, 48149 Münster
Tel.: +49 251 83-64102
fhirst@fh-muenster.de
https://en.fh-muenster.de/internationaloffice/international_students_staff/fhirst.php

Course Orientation and Study Decision

Student Counselling and Information Centre (ZSB)
Hüfferstraße 27, 48149 Münster
Tel.: +49 251 83-64150
studienberatung@fh-muenster.de
https://en.fh-muenster.de/studium/studienberatung/zsb/zsb.php

Application and Enrollment

Service Office for Students (SOS)
Hüfferstraße 27, 48149 Münster
Tel.: +49 251 83-64700
int-zul@fh-muenster.de
en.fh-muenster.de/studium/studienberatung/sos/service-office-studierende.php

Stand: August 2022

Are you fascinated by new materials?

Would you even like to design high-tech-materials yourself? Then our new international Master's degree programme Materials Science and Engineering might be just right for you!

Reasons to study Materials Science and Engineering

The development of innovative materials creates important preconditions for new industrial processes and modern products. Thus, they promote social progress, improve quality of life and solve important problems in areas of energy technology, life-science or information technology.

Reasons to study at the University of Applied Sciences Münster

- High quality of teaching and intensive mentoring
- Practical and research-based
- Strong network with companies
- International partner universities
- Qualification for PhD programmes

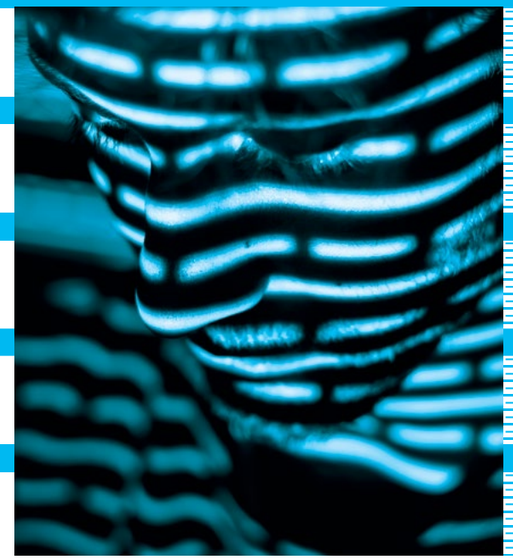
Further Information

https://en.fh-muenster.de/materials-science/index.php

FH MÜNSTER
University of Applied Sciences

Materials Science and Engineering

Master's degree



CIW **FB Chemieingenieurwesen**
Department of Chemical Engineering

PHY **FB Physikingenieurwesen**
Department of Engineering Physics

ITB **Institut für Technische Betriebswirtschaft**
Institute of Business Administration & Engineering

Revolutionize and develop materials.
Optimize processes.
Improve quality of life.

At a Glance

Standard Study Period	4 Semesters
Degree	Master of Science (M.Sc.)
Start of Programme	Winter Term
Costs	Semester Fee approx. 300 Euro incl. Semester Ticket
Study Location	Steinfurt
Admission	B.Sc. „very good - 2,5“, English B2
Application	https://en.fh-muenster.de/studium/studien-bewerbung/studienbewerbung.php

Content

This study course focuses on the combination of materials science and materials engineering. It is held in English and reconciles both fields in an international environment. The contents aim at i.e. the transfer of profound knowledge of solid state physics and polymer science in order to qualify for future professional fields. You will model material properties on a macroscopic and microscopic level to develop materials in consideration of sustainability aspects.

Target Group

- Bachelor graduates from the fields of chemistry, physics, mechanical engineering or corresponding engineering sciences

Career Perspectives

After your studies you will have the opportunity to work in various professional fields in the industry or you can enroll in a PhD programme. The Master‘s degree programme provides you with comprehensive skills for jobs in research or in the industry. The University of Applied Sciences Münster offers excellent cooperations for PhD candidates as well as with the industry which allows you to build up an important professional network during your studies. You can also obtain additional degrees abroad via double degree programmes and thereby qualify for the global job market.

Curriculum Materials Science and Engineering (M.Sc.)

Electives I (Module Contents)	**Understanding Materials** Chemical Nanotechnology Physical Chemistry Advanced Inorganic Chemistry Membrane Separations Biomedical Materials Quantum Statistical Physics	**Analysis of Materials** Surface Science Electron Microscopy X-Ray Analytics of Materials Modern Crystallography Optical and Electrical Analytics of Materials Analytics of Plastics & Polymers Chemical Sensors Life-Cycle Assessment	**Technology of Materials** Innovative Materials/Light Metal Design/ Carbon Fibers Chemical Technology of Materials Technology of Coatings Optical Technology Light Sources Semiconductor Technology Solar Cells Battery/Energy Storage FEM & Micro Optical Mechanical Systems Project Management Business Simulation Laser Material Processing
Electives II	German as a Foreign Language or Intercultural Communication and Competence Bridging Courses from Physics/Chemistry B.Sc. Program Arbitrary Module		
Compulsory Modules	Solid State Physics and Semiconductors Dielectrics and Ceramics Macromolecular Chemistry and Polymer Application Project Work: Literature Research, Practical Experimental Work and Own Projects in Various Laboratories		
Final Phase	Master‘s Thesis and Colloquium		