



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Master of Science in Polymer Materials Science

Martin Luther University Halle-Wittenberg • Halle (Saale)

### Overview

Degree	Master of Science
In cooperation with	Hochschule Merseburg
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English.
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Admission is currently restricted ("Uni-NC"). Foreign students: 15 June (presumably) German students: 15 July (presumably) for the following winter semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No

#### Description/content

Polymer Materials Science is an interdisciplinary English language Master's programme in the field of polymer science. You will obtain a multifaceted education in one of the central industrial growth sectors. Nowadays, polymer research is performed as a multidisciplinary collaboration among physicists, chemists, and engineers who are seeking new knowledge on making, characterising, processing, and understanding the molecular basis of novel functional materials. Our course programme is research oriented and offers a polymer synthetic or a polymer physical specialisation. It thus qualifies you for work in industry as well as advanced training on the PhD level.

Faculty of Natural Sciences II – Chemistry, Physics and Mathematics  
Our faculty, with its two Institutes of Chemistry and Physics, is prominently oriented towards research in the broad area of condensed matter and materials science. About one quarter of the 30 professorships and research groups work in the area of macromolecular science and soft matter. Synthetic polymers are the main topic of the Experimental and Theoretical Polymer Physics Groups, the Macromolecular Chemistry Group, the Physical Chemistry of Polymers Group, the Nuclear Magnetic Resonance (NMR) Group as well as the Materials Science Group. Several other groups at the Max Planck and Fraunhofer Institutes, as well as at the Center of Engineering Sciences

and the Life Science Faculties, have activities in the polymer field and are actively contributing to the teaching provided within the Master's programme.

Main focus:

- General introduction to polymer science
- Polymer synthesis and characterisation
- Polymer physics
- Polymer processing and application
- Independent research and industry cooperation

Additional research and studies can be carried out at other institutions in Halle, e.g., the Fraunhofer Institute for Materials Mechanics, the Max Planck Institute for Microstructure Physics, etc. For detailed information, e.g., curriculum, course contents, etc., please visit our website: <http://www.natfak2.uni-halle.de/studium/polymat/>.

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## Course Details

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### Course organisation

General Modules:

- Basics of Materials and Polymer Physics (10 ECTS) (semester 1)
- Introduction to Polymer Research (15 ECTS) (semester 3)
- Polymer Chemistry (10 ECTS) (semester 1)
- Polymer Physics (10 ECTS) (semester 2)
- Polymer Engineering (10 ECTS) (semesters 1 & 2)
- Polymer Engineering Science (8 ECTS) (semester 3)
- Polymer Physical Chemistry (10 ECTS) (semesters 1 & 2)

Compulsory Modules (10 ECTS, semester 2; 7 ECTS, semester 3):

Science Focus:

- Advanced Polymer Chemistry or Physics (10 ECTS)
- Polymer Science Focus (7 ECTS)

Engineering Focus:

- Advanced Polymer Engineering (10 ECTS)
- Polymer Engineering Focus (7 ECTS)

Final Master's thesis (30 ECTS, semester 4)

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### International elements

- International guest lecturers

Course-specific, integrated German language courses

No

Course-specific, integrated English language courses

No

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## Costs / Funding

Tuition fees per semester in

None

EUR

**Semester contribution**                      Approx. 250 EUR per semester incl. public transport in the area

**Costs of living**                                Approx. 820 EUR per month

**Funding opportunities within the university**                      No

## Requirements / Registration

**Academic admission requirements**                      Suitable applicants for the course of study must have a Bachelor's degree (BSc) in Chemistry, Physics or in polymer related Materials Science. Other academic Bachelor's degrees, e.g., pharmacy or textile industry, can be accepted, when basic knowledge of chemistry, physics or polymer engineering/processing are proven.

English at **level B2** (according to the CEFR)

**Language requirements**                      Level B2: TOEFL (at least 213 computer-based /550 paper-based), IELTS (at least band 6.0) or UNIcert II (writing and speaking) for applicants whose native language is not English

**Application deadline**                      Admission is currently restricted ("Uni-NC").  
Foreign students: 15 June (presumably)  
German students: 15 July (presumably)  
for the following winter semester

**Submit application to**                      Martin-Luther-Universität Halle-Wittenberg  
c/o uni-assist e.V.  
11507 Berlin  
Germany

## Services

**Possibility of finding part-time employment**                      Several assistant jobs (research, measurements) after the first (passed) semester

**Accommodation**

- Single apartments in student hostels at or near the campus offered by the Student Services (Studentenwerk: <https://tl1host.eu/SWHAL/#home>)
- Single/double apartments near the campus from a private provider

All apartments are furnished. The price is about 200 EUR per month. Reservations are necessary!

**Support for international students and doctoral candidates**

- Welcome event

## Our Partners



# – Martin Luther University Halle-Wittenberg –

Martin Luther University, founded in 1502, is one of the oldest German universities. Today, about 20,000 students are matriculated. Our university offers excellent up-to-date equipment and libraries that facilitate the teaching of all essentials for your professional career, plus a wide range of leisure facilities (sports centre, student clubs, etc.).



## University location

Located 100 km south of Berlin, Halle is a centre of science, culture and industry in the eastern part of Germany. Our city is located about 20 km from the Leipzig-Halle airport.

## Contact

### **Martin Luther University Halle-Wittenberg**

Naturwissenschaftliche Fakultät II

Karsten Busse

06099 Halle (Saale)

✉ [polymat@natfak2.uni-halle.de](mailto:polymat@natfak2.uni-halle.de)

 Course website: <https://studienangebot.uni-halle.de/polymer-materials-science-master-120>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

## Editor

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## GATE-Germany

Consortium for International Higher Education Marketing  
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Federal Ministry  
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