

**Language courses:** We strongly recommend to attend an intensive German language course before you start the master's programme. In this way it will be easier to manage your daily life in Germany.

Please contact the Goethe Institute in your home country or the Institute for German Language and Culture at our University. During your studies we organize further language classes, which have to be paid by yourselves.

## About us

### About Halle and the University

With a population of almost 240,000, Halle offers a versatile mixture of art, culture, gastronomy and recreation. Numerous national institutions are also headquartered in Halle. The Leipzig-Halle international airport is only 15 minutes away by train or car. It takes just over an hour to get to Berlin.

Martin Luther University Halle-Wittenberg, founded in 1502, is one of the oldest universities in Germany and, with around 20,000 students, the largest in the federal state of Saxony-Anhalt. We rely on modern laboratory equipment as well as extensive support of our students. The Faculty of Natural Sciences II at Halle University, with its three Institutes of Chemistry, Physics and Mathematics, 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.

### Just a stone's throw away: Merseburg

The Department of Engineering and Natural Sciences at the University of Applied Sciences Merseburg is focused on engineering and application-oriented teaching and research. This covers the fields of polymer science and plastics engineering as well as machine construction/mechatronics and chemical/environmental engineering. The close connection with the Kunststoff-Kompetenzzentrum Halle-Merseburg (KKZ) and the proximity to industrial problems as well as practical applications of polymer materials offer the students application-oriented research topics, for example for their master thesis.

### Programme advisor

#### Dr Karsten Busse

Institute of Chemistry

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

Phone: +49 345 55-25802

### General student guidance

E-Mail: [ssc@uni-halle.de](mailto:ssc@uni-halle.de)

Phone: +49 345 55-21306, -21322, -21327, -21308

Office hours: mo - thu 10 am - 4 pm, fr 10 am - 1 pm

Location: Studierenden-Service-Center (SSC),

Universitätsplatz 11 → Löwengebäude,

06108 Halle (Saale), Germany

*We recommend making an appointment in advance.*

### International students section

#### Kati Gaudig

E-Mail: [kati.gaudig@verwaltung.uni-halle.de](mailto:kati.gaudig@verwaltung.uni-halle.de)

Location: Studierenden-Service-Center (SSC),

Universitätsplatz 11 → Löwengebäude,

06108 Halle (Saale), Germany

Postal address:

Martin-Luther-Universität Halle-Wittenberg

06099 Halle (Saale)

Germany

→ [www.uni-halle.de/international-students](http://www.uni-halle.de/international-students)

→ [www.uni-halle.de/apply](http://www.uni-halle.de/apply)

→ [www.uni-halle.de/first-steps](http://www.uni-halle.de/first-steps)

### Publisher's note

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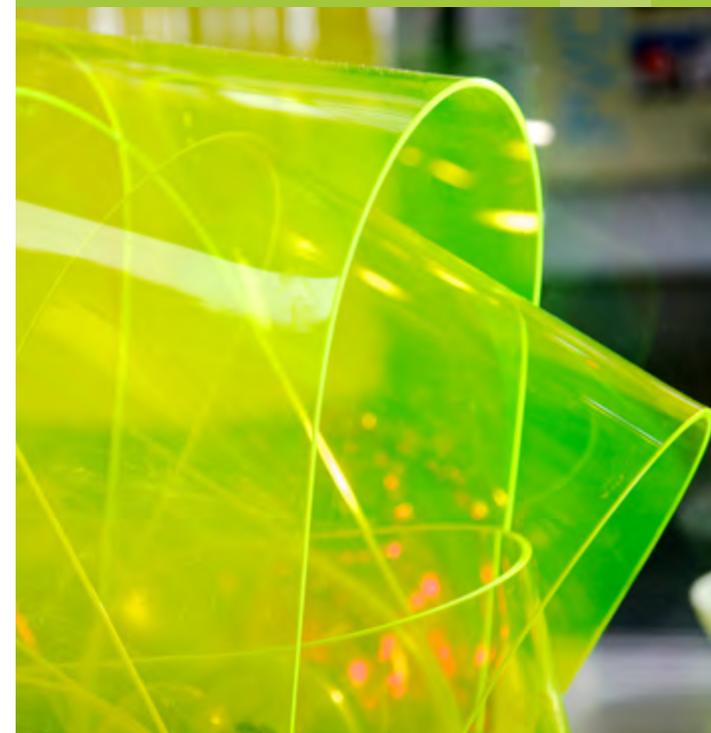
# Polymer Materials Science

## Master

Interdisciplinary Master  
Course *Master of Science*

120  
CP

Stand: November 2019 | Photo: Peter Eichler



## Programme at a glance

**Faculty of Natural Sciences II** – Chemistry, Physics and Mathematics

**Institute** of Chemistry and **Institute** of Physics

**Programme type:** One-subject Master with 120 Credit Points

**Degree:** Master of Science (M.Sc.)

**Standard period of study:** 4 semesters

**Start:** Winter semester

**Language of instruction and examinations:** English

**Subject-specific requirements:** yes

This study programme is **accredited**.

## Programme aims

*Polymer Materials Science* is an interdisciplinary master's programme, run as a collaboration between Martin Luther University Halle-Wittenberg and the University of Applied Sciences Merseburg. Nowadays, polymer research is performed as a multidisciplinary collaboration among physicists, chemists and engineers, seeking new knowledge on making, characterizing, processing and understanding the molecular basis of novel functional materials.

Studying this master you will obtain a multifaceted education in one of the central industrial growth sectors. The research-oriented programme offers specializations in polymer-synthetic or polymer-physical and engineering. Thus our master's graduates are qualified for jobs in chemical industry production as well as advanced training on PhD level.

## Career opportunities

The programme qualifies for the following job opportunities:

- Basic polymer research in chemical industry
- Applied research and development in plastics-producing and plastics-processing industry
- Teaching at university
- Leading positions in industry and administration

## Admission requirements

Applicants for *Polymer Materials Science 120 CP* must

- hold a bachelor's degree or equivalent degree in Chemistry, Physics, Engineering or Materials Science (minimum 180 CP), or related fields with a final mark of 2.5 or better,
- prove **very good** knowledge in the following areas: higher mathematics for scientists/engineers; experimental physics (mechanics, magnetism and electricity, oscillations and waves, optics); organic chemistry, inorganic chemistry, physical chemistry,
- prove B2 level proficiency of English (according to the CEFR) via German Abitur, by means of an internationally recognized test result such as TOEFL, IELTS, Cambridge Certificate or UNICert II and
- submit a letter of motivation.

For detailed information on admission requirements, please consult the study and examination regulations (in German only). Decisions on compliance with the prerequisites are taken by the study and examination board of the programme.

## Application

The admission to *Polymer Materials Science 120 CP* is currently **not limited by numerus clausus** (Uni-NC).

- Applicants who obtained their master's qualification in Germany must apply until **August 31** via [www.uni-halle.de/bewerben](http://www.uni-halle.de/bewerben).
- Applicants who obtained their master's qualification abroad must apply until **April 30** via [www.uni-assist.de/en](http://www.uni-assist.de/en). (Handling fee for applications via Uni-Assist!)

Halle University evaluates the numerus clausus of its study programmes on an annual basis. Please check [www.uni-halle.de/+pmsma](http://www.uni-halle.de/+pmsma) around May to check if the quota for your programme of choice has been lifted or maintained.

You might apply with a previous graduation certificate, respectively your recent transcripts. The final graduation certificate should be handed in with the enrolment at university, respectively max. 4 months later, i. e. **January 31**.

## Modules

The content, learning objectives, workload, requirements and prerequisites of specific modules are published in the module catalogue and the *study and examination regulations* (in German only).

Module	CP	recom. sem.
<i>Compulsory modules (73 CP)</i>		
Basics of Materials and Polymer Physics	10	1st
Polymer Chemistry	10	1st
Polymer Engineering	10	1st & 2nd
Polymer Physical Chemistry	10	1st & 2nd
Polymer Physics	10	2nd
Introduction to Polymer Research	15	3rd
Polymer Engineering Science	8	3rd
<i>Compulsory optional modules (17 CP) (one field must be selected)</i>		
Polymer Science		
• Advanced Polymer Chemistry or Advanced Polymer Physics	10	2nd
• Polymer Science Focus	7	3rd
Polymer Engineering		
• Advanced Polymer Engineering • Polymer Engineering Focus	10 7	2nd 3rd
Master Thesis	30	4th

## Relevant Additional Information

**Tuition fee:** None

**Semester fee:** about 220 Euro

The scholarship *Deutschlandstipendium* offered by Halle University is available for international students also. Please check its conditions and application online. Furthermore, the German Academic Exchange Service DAAD ([www.daad.de](http://www.daad.de)) offers scholarships especially for master students. Make sure to apply for a scholarship before entering Germany.