

CP = Credit Points

One credit point corresponds to a workload of 30 hours. A semester with 900 working hours thus yields 30 credit points. Lectures, seminars, project works and lab courses, as well as homework, reading assignments, and preparation for examinations are part of the overall workload.

Module

Modules are the building blocks of the Master Course, covering a well-defined teaching load during a given time of one or two semesters. Modules comprise lectures, seminars, lab courses, project works, take-home assignments, etc. The volume of a module is specified in terms of credit points.

Engineering modules take place at the University of Applied Sciences Merseburg.

The Master Thesis

The Master Thesis comprises carrying out an independent research project. Literature research, selection of experimental methods, and set-up of an appropriate workplan are important parts of the Master Thesis. The results must be evaluated, critically discussed, and presented in a defence.

Job Opportunities

The Master Course qualifies for the following job opportunities: basic polymer research in chemical industry, applied research and development in plastics-producing and -processing industry, teaching at university, leading positions in industry and administration.

Contact

Institute of Chemistry and Institute of Physics

Dr. Karsten Busse

E-Mail: polymat@natfak2.uni-halle.de

phone: ++49 345 / 55 25 802

fax: ++49 345 / 55 27 017

Von-Danckelmann-Platz 4, 06120 Halle (Saale)

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

<http://www.natfak2.uni-halle.de/studium/>

phone: ++49 345 / 55 25 600 / -601/ -602

Von-Danckelmann-Platz 3, 06120 Halle (Saale)

Contact for international students

Mrs. Ina Hieronymus

E-Mail: international.students@uni-halle.de

phone: ++49 345 / 55 21 314

Hostel portal of the student administration Halle

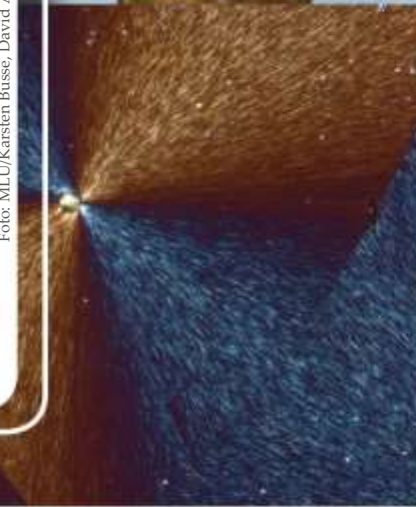
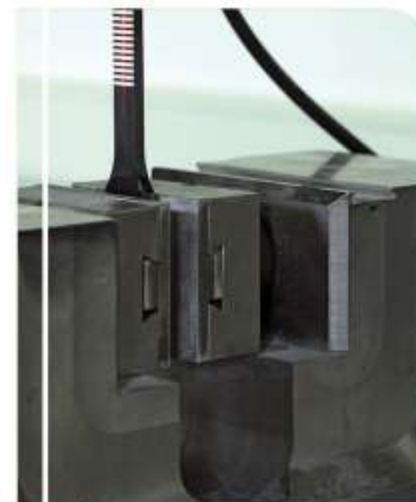
https://tl1host.de/SWHAL/?lang_id=2

updated 09/2015

Recent developments and news on polymer research can be found at:

<http://www.polymat.uni-halle.de>

Foto: MLU/Karsten Busse, David Ausserhofer, Polymer Service GmbH Merseburg



Polymer Materials Science – Master of Science

A joint international M.Sc. Degree Course with 120 Credit Points

HOME
HOCHSCHULE
MERSEBURGTM
University of Applied Sciences

MARTIN-LUTHER-UNIVERSITÄT
HALLE-WITTENBERG



Polymer Materials Science – an English Master Program in a Field of the Future

Polymer Materials Science is an interdisciplinary Master Program in the field of polymer science in collaboration of the Martin-Luther-University Halle-Wittenberg and the University of Applied Sciences Merseburg. 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, seeking new knowledge on making, characterizing, processing, and understanding the molecular basis of novel functional materials. Our course program is research-oriented and offers a polymer-synthetic or a polymer-physical and engineering specialization, and thus qualifies for work in industry as well as advanced training on the PhD level.

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

The 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 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 Program.

University of Applied Science - Department of Engineering and Natural Sciences

The department is focused on an engineering and application-oriented teaching and research. This covers the fields of polymer sciences 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 allow the students application oriented research topics, for example for their master thesis.

The Degree

Master of Science (M.Sc.)

Begin of the Course

Each winter semester

Prerequisites for the Course

Suitable applicants for the course have a Bachelor degree (B.Sc.) in Chemistry or Physics (and related topics) or in Materials Science with a final mark of at least 2.5. Fluent written and spoken English is necessary (TOEFL, IELTS or UNICert II). Decisions on compliance with the prerequisites are taken by the study and examination board of the Course Program.

Application and Admission Procedure

There are no general restrictions on admission.

Students with a Bachelor degree from a German university apply via the Immatrikulationsamt (see <http://immaamt.verwaltung.uni-halle.de/bewerbung>).
Deadline is August 31st

Foreign applicants apply via Uni Assist (see <http://www.uni-assist.de/bewerben.html>).
Deadline is April 30th.

Duration of the Course Program

The regular duration is 4 semesters.

Structure of the Course Program

Master Course (120 credit points, CP) – 4 semesters

Master Thesis (30 CP)
Modules of the Course Program (90 CP)

Topics of the Master Course

Polymer Materials Science 120 CP

Modules	CP	Examination	Semester
Compulsory Modules (103 CP)			
Basics of Materials and Polymer Physics	10	oral or written examination	1
Polymer Chemistry	10	oral examination	1
Polymer Engineering	10	oral examination	1-2
Polymer Physical Chemistry	10	oral or written examination	1-2
Polymer Physics	10	oral examination	2
Introduction to Polymer Research	15	written examination	3
Polymer Engineering Science	8	oral or written examination	3
Master-Thesis (M.Sc.)	30	written Master-Thesis; oral defence	4
General specialization 7 CP (depending on specialization of the Master Thesis)			
Polymer Engineering Focus	7	oral examination	3
Polymer Science Focus	7	oral examination	3
Research specialization 10 CP			
Advanced Polymer Chemistry	10	oral or written examination	2
Advanced Polymer Physics	10	oral or written examination	2
Advanced Polymer Engineering	10	oral or written examination	2

Faculty of Natural Sciences II – Chemistry, Physics and Mathematics
and Department of Engineering and Natural Sciences