

## A good place to study and research



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Published by:  
Otto von Guericke University Magdeburg, Faculty of Medicine  
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Status: 01/2016

### HUMAN MEDICINE COURSE CURRICULUM

Medical training is based on the order regulating licenses to practice medicine (ÄAppO) dated 27 June 2002. The program includes lectures (L), internships (I), courses (C) and seminars (S).

#### PRECLINICAL CURRICULUM SEMESTERS 1-4

Physics, Chemistry and Biology for Physicians; Physiology; Biochemistry/Molecular Biology; Macroscopic and Microscopic Anatomy; Medical Psychology and Medical Sociology; Introduction to Clinical Medicine; Introduction to Careers in Medicine; Medical Terminology and elective

- minimum of 784 hours L, I, C, S
- 16 hours of first aid training
- 3 months of nursing service

#### First part of the Medical Examination

Written (multiple choice = MC) and oral

#### CLINICAL CURRICULUM SEMESTERS 5-10

##### A Subjects

General Medicine; Anaesthesiology; Occupational Medicine; Social Medicine; Ophthalmology; Surgery; Dermatology; Venereology; Gynaecology, Obstetrics; Ear, Nose and Throat Medicine; Human Genetics; Hygiene, Microbiology, Virology; Internal Medicine; Paediatrics; Clinical Chemistry, Laboratory Diagnostics; Neurology; Orthopaedics; Pathology; Pharmacology, Toxicology; Psychiatry and Psychotherapy; Psychosomatic Medicine and Psychotherapy; Forensic Medicine; Urology and elective

##### B Interdisciplinary areas

Epidemiology, Medical Biometry and Medical Information Technology; History, Theory, Medical Ethics; Health Economics, the Health System, Public Health; Infectious Diseases, Immunology; Clinical-Pathological Conference; Clinical Environmental Medicine; Medicine of Ageing and of the Elderly; Emergency Medicine; Clinical Pharmacology/Pharmacotherapy; Prevention, Health Promotion; Imaging Systems, Radiation Therapy, Radiation Protection; Rehabilitation; Physical Medicine; Naturopathy; Palliative Medicine and Pain Management



Photo: Examination course in the MAMBA (Magdeburg Training Centre for Basic Medical Skills)

### APPLICATIONS AND ADMISSION REQUIREMENTS

#### REQUIREMENTS FOR STUDYING MEDICINE

General higher education entrance qualification certificate or other qualification granting access to higher education as recognized by the Ministry of Economic Affairs, Sciences & Digital of the state of Saxony-Anhalt. Experienced professionals in the medical occupations who do not hold a qualification granting access to higher education may take a special examination.

#### APPLICATIONS

In Germany, admission to courses in Human Medicine is subject to restrictions. In Magdeburg, enrolment takes place annually for the start of the winter semester. Places to study medicine for German applicants, for foreign applicants with a German qualification granting access to higher education (foreign nationals educated in the German school system) and for foreign applicants from the European Union and the EEA (Iceland, Liechtenstein, Norway) are awarded by the Stiftung für Hochschulzulassung (German Foundation for University Admission, [hochschulstart.de](http://hochschulstart.de)). Applications must be submitted directly to the Stiftung für Hochschulzulassung (D-44128 Dortmund, [www.hochschulstart.de](http://www.hochschulstart.de)), quoting the name of the relevant university.

#### Clinical Traineeship

· 4 months

University Examinations (A and B) between the first part of the Medical Examination and the start of the practical year

#### Second Part of the Medical Examination

Written

#### PRACTICAL YEAR: SEMESTERS 11-12

- 16 weeks internal medicine
- 16 weeks surgery
- 16 weeks general medicine or electively one of the remaining clinical practical subjects

#### Third part of the Medical Examination

Oral practical

End of studies at the university  
State examination and licensing to practice medicine

### APPLICANTS FROM ABROAD

The decisive admission criteria are the grade average obtained in the qualification granting access to higher education and excellent knowledge of the German language. Furthermore, the outcome of the German-language TestAS aptitude test is also an essential criterion. The application deadline is 15 July for the following winter semester (uni-assist). Comprehensive information on making an application is available from the International Office of the Faculty of Medicine or from uni-assist e.V. The International Office also has information for applicants to a higher semester as well as graduates from abroad.

#### APPLICATION DEADLINE

by 15 July (cut-off date); by 31 May (cut-off date) for candidates who obtained their entrance qualification prior to 16 Jan

#### Applications and enquiries can be forwarded to

Otto-von-Guericke-Universität Magdeburg  
Medizinische Fakultät  
Studiendekanat  
Leipziger Strasse 44  
D-39120 Magdeburg

Telephone: +49 (0)391 671 5762, 671 5764  
Fax: +49 (0)391 671 5393  
email: [studiendekanat@med.ovgu.de](mailto:studiendekanat@med.ovgu.de)  
Web: [www.med.uni-magdeburg.de](http://www.med.uni-magdeburg.de)

#### Applicants from abroad

Otto-von-Guericke-Universität Magdeburg  
Medizinische Fakultät  
Akademisches Auslandsamt  
Haus 2, Leipziger Strasse 44  
D-39120 Magdeburg

Telephone: +49 (0)391 671 5143  
Fax: +49 (0)391 671 5393  
email: [aaa@med.ovgu.de](mailto:aaa@med.ovgu.de)  
Web: [www.med.uni-magdeburg.de/aaa](http://www.med.uni-magdeburg.de/aaa), [www.uni-assist.de](http://www.uni-assist.de)

#### Student hall of residence applications to

Studentenwerk Magdeburg, Anstalt des öffentlichen Rechts  
Abteilung Wohnheime  
Postfach 4053  
D-39015 Magdeburg

Web: [www.studentenwerk-magdeburg.de](http://www.studentenwerk-magdeburg.de)

## Faculty of Medicine



## OTTO VON GUERICKE UNIVERSITY MAGDEBURG

In terms of research and teaching the focus of Otto von Guericke University Magdeburg lies on engineering, the natural sciences, economics and business, and medicine. In addition, humanities subjects provide the university, which was founded in 1993, with an essential complement for meeting the challenges of the modern knowledge society.

Over 14,400 students, of which over 2,200 come from international backgrounds, are enrolled in the nine faculties on more than 80 different courses. This dynamic and cosmopolitan university offers state-of-the-art facilities, excellent supervision for students and a practical, hands-on education. The key areas of research and transfer at the university are interdisciplinary in nature and are effectively reinforced by nearby external research institutes.

### KEY AREAS OF RESEARCH

- Dynamic Systems
- Neurosciences

### KEY AREAS OF RESEARCH TRANSFER

- Automotive
- Digital engineering
- Renewable energies
- Medical technology
- Fluidised bed technology

### OTTO VON GUERICKE (1602-1686)

The University of Magdeburg takes its name from the founder of experimental physics and vacuum technology, Otto von Guericke. He lived from 1602 to 1686 and is possibly the city's most famous son. His interest in scientific correlations and methods, as well as his commitment to the common good, are a model for and guiding principle of the university community.



Photo: Stefanie Meier

## FACULTY OVERVIEW

### A HANDS-ON EDUCATION

Magdeburg's Faculty of Medicine implements in its entirety the most recent version of the order regulating licenses to practice medicine passed on 27.6.2002. As the largest hospital in northern Saxony-Anhalt, it provides the ideal setting for a patient-focused and practical medical education. This includes integrated, case- and problem-oriented lectures, as well as systematic teaching and independent learning. Interdisciplinary research jointly cultivated by clinics and institutes is of particular importance to student education. In

addition to major projects, a variety of individual research projects are carried out in the different institutes, and offer an excellent basis for student dissertations.

Exchange programmes with partner institutions abroad offer the opportunity to study or to carry out research in Europe, Asia and America. Students have very good prospects of spending several months studying abroad, for example in the US, Mexico, Chile, France, Lithuania, Austria, Poland,

Bulgaria, the Netherlands or Turkey. A number of scholarships are available.

Furthermore, for students with a passion for research, the faculty offers a Master's programme in Immunology, which provides an exceptional foundation for a career in immunological research and development.

[www.med.ovgu.de/masterimmunologie](http://www.med.ovgu.de/masterimmunologie)

### A COMPACT LEARNING ENVIRONMENT

Numerous new appointments of professors from around Germany show that the Faculty of Medicine is an attractive place for teaching and conducting research. Particular value is placed on close interaction between students and professors. This is aided by the relatively small number of students, with around 200 being enrolled every year. Should problems arise, individual appointments can be made with the professors. The course organisational structure with fixed seminar groups guarantees every medical student internship and class schedules that make it possible for their degree to be completed within the standard study duration. A very active Faculty Student Council campaigns on student concerns.

The contiguous campus in the south part of Saxony-Anhalt's capital is a great advantage. It boasts 26 clinics and 20 institutes. Only the gynaecology clinic is housed off-campus. A student hall of residence is located right next to the campus.

### RESEARCH PROFILE

The research profile features the following two key areas of research:

- Immunology including the molecular medicine of inflammation
- Neuroscience

The key areas of research feature a large number of group funding instruments and research cooperations and thus determine the strategic orientation of the faculty. The close cooperation between the two research groups is especially noteworthy, and can, among other things, be seen from the

two collaborative research centres 854 and 779 as well as Graduate School 1167.

In the interests of achieving still better translation and transfer of the research findings as well as promoting up-and-coming scientists and taking into account demographic change, the faculty has developed additional activities from and with the key areas.

For example, on the „Immunology, Infectology and Inflammation GC-13“ health campus, emphasis has been placed on the diagnosis and treatment of common diseases.

The CBBS health campus is concerned with the prevention and treatment of dementia. The Faculty is also involved with both key areas in the university's Federal Ministry of Education and Research campus for the development of medical technology. Taking into account the current developments in the Faculty, areas of potential have been identified for more intensive development. These areas are translational clinical oncology, musculoskeletal, reconstructive surgery and cardiovascular medicine.

All of the named research activities of the Faculty are supported to a large degree by the contractually governed cooperations with external research facilities such as the Leibniz Institute for Neurobiology (LIN), the Helmholtz Centre for Infection Research (HZI), the Max Planck Institute for the Dynamics of Complex Technical Systems (MPI) and the Centre for Neurodegenerative Diseases (DZNE).

## UNIVERSITY CLINICAL CENTRE

Magdeburg's University Clinical Centre, with its campus in the south of the state capital, has been attracting patients from northern Saxony-Anhalt for many years, and increasingly from other federal states. Its clinics offer a range of medical services including state-of-the-art diagnostics and highly specialised treatments.

The opening of the clinical centre's complex for surgery/aspects of internal medicine and neuromedicine (building 60) in the summer of 2003 meant a concentration of nearly 500 beds, numerous functional rooms and a central emergency room. This considerably improved the foundations for in-

terdisciplinary collaboration between the non-surgical and surgical fields and increased the quality of medical care.

The history of the University Clinical Centre goes back to 1890 with the construction of the Sudenburg hospitals. In 1954 the Magdeburg Academy of Medicine (MAM) was founded. This transformed the urban hospitals into a medical school. Ever since then, budding physicians have been studying human medicine here. On 3 October 1993 the Academy of Medicine and associated clinic became part of Otto von Guericke University Magdeburg. Since 1 January 2006, Magdeburg University Clinical Centre has been a public institution with legal capacity.

## SKILLS LAB

### “MAMBA” SKILLS LAB – MAGDEBURG TRAINING CENTRE FOR BASIC MEDICAL SKILLS

Since 2009, the Faculty of Medicine in Magdeburg has been home to a Skills Lab. This facility enables medical students to polish their practical skills independently in addition to during their scheduled classes. They are supervised by doctors and student assistants.

#### The following optional courses are offered alongside the curriculum courses:

- Auscultation using the “SAM” auscultation trainer
- Taking of blood samples
- Surgical suturing techniques and surgeon's knots
- ECG course
- Gynaecological examination
- Lumbar puncture
- Neurological examination
- Surgery course
- Orthopaedic examination
- Cardiopulmonary resuscitation (CPR)
- Sonography
- Ophthalmic examination
- Basic clinical examination skills, in which the abdomen and thorax of practice partners are examined under the guidance/with the help of a student assistant.