

Graduate Programs
M.A. | M.Sc. | LL.M.



TU Dortmund University — Main Campus

Ruhr University Bochum — Main Campus



University Alliance Ruhr: Three universities. Endless possibilities.

Ruhr University Bochum (RUB), TU Dortmund University (TUDO), and the University of Duisburg-Essen (UDE) formed the University Alliance Ruhr (UA Ruhr) in 2007. By coming together to pool their expertise and enhance their collective potential, they have created an alliance of three universities with endless possibilities. The UA Ruhr universities are located in the metropolitan Ruhr area in the heart of Europe, offering a unique range of cultural and other leisure activities.

RUB (2015)

- 43,004 students (13% international)
- 3,303 academic staff
- 2,196 master's degrees per year
- 576 doctoral degrees per year
- 830 foreign doctoral students and international guest researchers
- €413m budget + €112m third-party funding for research projects

TUDO (2015)

- 33,554 students (12% international)
- 2,277 academic staff
- 1,879 master's degrees per year
- 282 doctoral degrees per year
- 597 foreign doctoral students and international guest researchers
- €282m budget + €69m third-party funding for research projects

UDE (2015)

- 41,960 students (19% international)
- 3,982 academic staff
- 1,293 master's degrees per year
- 498 doctoral degrees per year
- 507 foreign doctoral students and international guest researchers
- €424m budget + €122m third-party funding for research projects

The UA Ruhr universities cooperate with hundreds of universities and institutions around the world. To support and deepen our international exchange and collaboration, UA Ruhr created academic liaison offices in North America, Latin America and Russia.



TU Dortmund University — Main Campus

TU Dortmund University — Center for Biological Medicine

TU Dortmund University — Auditorium Maximum

Studying in the heart of Europe.



University of Duisburg-Essen (UDE)



Ruhr University Bochum (RUB)



TU Dortmund University (TUDO)



Tetraeder in Bottrop

Why study with us?

Internationally recognized degrees.

There are some 160 master's degree programs, many of them offered in English, in engineering and science, as well as in the social sciences and humanities. Working closely with our internationally renowned faculty, students earn a degree that is highly respected by employers around the world.

No tuition.

The UA Ruhr universities do not charge tuition fees. Students pay a low semester fee that includes a semester pass for public transportation throughout the entire state of North Rhine-Westphalia. In addition to countless scholarship opportunities provided by the German Academic Exchange Service (DAAD), students can apply for grants offered by the universities and foundations.

Academic excellence.

An extensive network of 12 German Research Foundation (DFG) research centers, graduate schools and research groups creates unique interdisciplinary educational opportunities. In a wide range of disciplines, our programs combine scientifically oriented study with a strong focus on practice. Close partnerships between the universities and the industry are key to the success of our graduates.

Top reputation.

With many of their departments continuously ranked in the top ten percent, all three UA Ruhr universities are among the leading research universities in Germany. Our scientists accomplish outstanding work in fields such as materials science, production and logistics, physics and chemical biology, nanoscience and protein research, educational research, urban studies and religious studies. The strength of our faculty is also manifest in the numerous national and international honors and distinctions that have been bestowed on outstanding representatives of our universities.



Dortmunder U

Villa Hügel, Essen

Palace Horst, Gelsenkirchen

Ruhr valley

Decorated tank, Gelsenkirchen

Landscape park Duisburg Nord

Dortmund Theatre

Many places to go.

Quality of life *on campus*.

Located in the metropolitan Ruhr region in the western part of Germany, students at UA Ruhr find themselves in a big melting pot with students and faculty from all over the world. Our campuses in Bochum, Dortmund, Duisburg and Essen feature everything from music events and theater to art collections and botanical gardens. All universities offer extensive sports programs ranging from soccer, the most popular sport in the region, to water sports and climbing.

Quality of life *off campus*.

The 35-mile stretch between Duisburg and Dortmund boasts an unparalleled landscape: The Ruhr area has not only successfully transitioned from heavy industries to science and research, it has also developed into a unique cultural landscape. International events such as the RuhrTriennale, the Ruhr Piano Festival and the Ruhr Theater Festival feature international as well as regional art and artists — mainstream, classic and experimental. Almost everything can be found in the region's 300-plus museums, venues, parks and theaters.

Excellent infrastructure.

The Ruhr region has one of the world's most extensive public transportation networks with more than 900 commuter train, subway, light-rail, and bus lines, serving more than 100,000 stops. International long-distance and high-speed trains connect the Ruhr region with other German and European metropolitan areas, and Düsseldorf International Airport serves as a hub to all major destinations, both continental and intercontinental.



Schwanentor bridge, Duisburg

Application and admission.

To enroll in a master's degree program, an undergraduate degree (typically a bachelor's degree) with good grades is required. Moreover, **applicants need proof of proficiency in German or English** (for the programs taught in English).

The master's degree programs usually have a duration of 2 years (4 semesters, very few programs are 2-3 semesters long). The language of instruction is German or English (see list on the following pages).

Semesters start in October and April; most programs start in October. Applications must be submitted to the respective UA Ruhr university. Procedures and factors taken into account for the acceptance may vary.

Application deadlines are the same every year:

- **Summer semester** (April-September):
January 15
- **Winter semester** (October-March):
July 15

For master's programs in English, the application deadlines are different. Please contact the individual admissions office for further information.

Contact us.

Prospective students will find details of application requirements and deadlines, housing and other important information on the website of the respective international office:

Ruhr University Bochum
www.international.rub.de
 Mail: international@rub.de

TU Dortmund University
www.aaa.tu-dortmund.de/application
 Mail: welcome@tu-dortmund.de

University of Duisburg-Essen
www.uni-due.de/international
 Mail: duisburg-io@uni-due.de

*Additional information about the UA Ruhr Liaison Offices is available online:
www.uaruhr.de/international.php*

Our master's programs.

Haide Hoheward near Recklinghausen

Alphabetical order within the disciplines

| COURSE | DEGREE | LANGUAGES | RUB | TUDO | UDE |
|---|--------|-----------|-----|------|-----|
| DISCIPLINE ENGINEERING, INFORMATICS AND ARCHITECTURE | | | | | |
| Applied Computer Science | M. Sc. | GER | ● | ■ | ◆ |
| Applied Computer Science - Systems Engineering | M.Sc. | GER | | | ◆ |
| Applied Communication and Media Studies | M.Sc. | GER | | | ◆ |
| Architecture and Urban Design | M.Sc. | GER | | ■ | |
| Automation and Control Engineering, ISE | M.Sc. | ENG & GER | | | ◆ |
| Automation and Robotics | M.Sc. | ENG | | ■ | |
| Automotive Engineering and Management | M.Sc. | GER | | | ◆ |
| Biochemical Engineering | M.Sc. | GER | | ■ | |
| Chemical Engineering | M.Sc. | GER | | ■ | |
| Chemical Engineering - Process Systems Engineering | M.Sc. | ENG | | ■ | |
| Civil Engineering | M. Sc. | GER | ● | | ◆ |
| Communications Engineering | M. Sc. | GER | | | ◆ |
| Computational Engineering | M. Sc. | ENG | ● | | |
| Computational Mechanics, ISE | M.Sc. | ENG & GER | | | ◆ |
| Computer Engineering, ISE | M.Sc. | ENG & GER | | | ◆ |
| Computer Science | M.Sc. | GER | | ■ | |
| Computer Science and Communications Engineering, ISE | M.Sc. | ENG & GER | | | ◆ |
| Construction Management and Real Estate Management | M.Sc. | GER | | ■ | |
| Electrical Engineering and Information Technology | M.Sc. | GER | | ■ | ◆ |
| Embedded Systems Engineering, ISE | M.Sc. | ENG & GER | | | ◆ |
| Environmental Technology and Resource Management | M. Sc. | GER | ● | | |
| Industrial Engineering | M.Sc. | GER | | ■ | ◆ |
| IT Security / Information Engineering | M. Sc. | GER | ● | | |
| IT Security / Networks and Systems | M. Sc. | GER | ● | | |
| Lasers and Photonics | M. Sc. | ENG | ● | | |
| Logistics | M.Sc. | GER | | ■ | |
| Management and Technology of Water and Waste Water, ISE | M.Sc. | ENG & GER | | | ◆ |
| Manufacturing Technology | M.Sc. | ENG | | ■ | |
| Materials Science and Simulation (ICAMS) | M. Sc. | ENG | ● | | |
| Mechanical Engineering | M. Sc. | GER | ● | ■ | ◆ |
| Mechanical Engineering, ISE | M.Sc. | ENG & GER | | | ◆ |
| Metallurgy and Metal Forming, ISE | M.Sc. | ENG & GER | | | ◆ |

| COURSE | DEGREE | LANGUAGES | RUB RUB | TUDO tu | UDE UDE |
|--|------------|-----------|------------|------------|------------|
| Nano Engineering | M.Sc. | GER | | | ◆ |
| Sales Engineering and Product Management | M.Sc. | GER | ● | | |
| Spatial Planning | M.Sc. | GER | | ■ | |
| Spatial Planning for Regions in Growing Economies (SPRING) | M.Sc. | ENG | | ■ | |
| Structural Engineering | M.Sc. | GER | | ■ | |
| Sustainable Urban Technology | M.Sc. | ENG | | | ◆ |
| Technical Logistics | M.Sc. | GER | | | ◆ |
| DISCIPLINE NATURAL SCIENCES, MATHEMATICS AND MEDICINE | | | | | |
| Biochemistry | M.Sc. | ENG | ● | | |
| Biodiversity | M.Sc. | ENG | ● | | ◆ |
| Biology | M.Sc. | GER | ● | | ◆ |
| Business Mathematics | M.Sc. | GER | | ■ | |
| Chemical Biology | M.Sc. | GER | | ■ | |
| Chemistry | M.Sc. | ENG | ● | | ◆ |
| Chemistry | M.Sc. | GER | | ■ | |
| Economathematics | M.Sc. | GER | | | ◆ |
| Environmental Toxicology | M.Sc. | ENG | | | ◆ |
| Data Science | M.Sc. | GER | | ■ | |
| Geography | M.Sc. | GER | ● | | |
| Geosciences | M.Sc. | ENG & GER | ● | | |
| Mathematics | M.Sc. | GER | ● | ■ | ◆ |
| Medical Biology | M.Sc. | GER | | | ◆ |
| Medical Physics | M.Sc. | GER | | ■ | |
| Medicine | State Exam | GER | ● | | ◆ |
| Molecular and Developmental Stem Cell Biology (IStEM) | M.Sc. | ENG | ● | | |
| Molecular Science and Simulation (IMOS) | M.Sc. | ENG | ● | | |
| Physics | M.Sc. | GER | ● | ■ | ◆ |
| Psychology and Cognitive Neuroscience | M.Sc. | GER | ● | | |
| Sports Science | M.Sc. | GER | ● | | |
| Statistics | M.Sc. | GER | | ■ | |
| Technomathematics | M.Sc. | GER | | ■ | ◆ |
| Transformation of Urban Landscapes* | M.Sc. | ENG | ● | | |
| Transnational Ecosystem-based Water Management | M.Sc. | ENG | | | ◆ |
| Water Science | M.Sc. | ENG | | | ◆ |

* Double master's degree in cooperation with Tongji University Shanghai, China

| COURSE | DEGREE | LANGUAGES | RUB RUB | TUDO tu | UDE UDE |
|---|--------|--------------|------------|------------|------------|
| DISCIPLINE ECONOMICS, MANAGEMENT AND LAW | | | | | |
| Business and Economics | M.Sc. | GER | | ■ | |
| Business Administration | M.Sc. | GER | | | ◆ |
| Business Administration - Energy and Finance | M.Sc. | GER | | | ◆ |
| Business Administration - Health Economics and Management in the Health Care System | M.Sc. | GER | | | ◆ |
| Business Psychology | M.Sc. | GER | ● | | |
| Economics | M.Sc. | ENG | ● | | |
| Economics | M.A. | GER | | | ◆ |
| Health Care Management | M.Sc. | GER | | | ◆ |
| Information Systems | M.Sc. | GER | | | ◆ |
| Management | M.Sc. | GER | ● | | |
| Management and Economics | M.Sc. | GER | ● | | |
| Märkte und Unternehmen (Markets and Enterprises) | M.Sc. | GER | | | ◆ |
| National and European Economic Law ** | LL.M. | GER & FRENCH | ● | | |
| Sales Management | M.Sc. | GER | ● | | |
| DISCIPLINE HUMAN AND SOCIAL SCIENCES | | | | | |
| Aging Societies | M.A. | GER | | ■ | |
| Anglophone Studies | M.A. | ENG & GER | | | ◆ |
| Applied Literary and Cultural Studies | M.A. | ENG & GER | | ■ | |
| Applied Linguistics | M.A. | ENG & GER | | ■ | |
| Art History | M.A. | GER | ● | | |
| Catholic Theology | M.A. | GER | ● | | |
| Christian Studies | M.A. | GER | | | ◆ |
| Classical Archaeology | M.A. | GER | ● | | |
| Classical Philology (Latin, Greek) | M.A. | GER | ● | | |
| Clinical Psychology | M.Sc. | GER | ● | | |
| Cognitive Science: Mind, Brain and Behavior | M.Sc. | ENG | ● | | |
| Contemporary East Asian Studies | M.A. | ENG | | | ◆ |
| Criminology, Governance and Police Science † | M.A. | ENG | ● | | |
| Culture Analysis and Intermediation | M.A. | GER | | ■ | |
| Cultural Management | M.A. | GER | | | ◆ |
| Development and Governance | M.A. | ENG | | | ◆ |
| Development Management | M.A. | ENG | ● | | |
| Discourses and Practices of Cultural Impact ** | M.A. | GER & FRENCH | ● | | |
| Dutch: Language and Culture | M.A. | GER & DUTCH | | | ◆ |

** Double degree with Tours, France

† Tuition

| COURSE | DEGREE | LANGUAGES | RUB <small>RUHR-UNIVERSITÄT BOCHUM</small> | TUDO <small>TECHNISCHE UNIVERSITÄT DUISBURG ESSEN</small> | UDE <small>UNIVERSITÄT DUISBURG ESSEN</small> |
|---|--------|--------------|---|--|--|
| East Asian Politics | M.A. | GER | ● | | |
| East Asian Studies | M.A. | GER | ● | | |
| Economics and Journalism | M.A. | GER | | ■ | |
| Economic and Raw Material Archaeology | M.A. | GER | ● | | |
| English and American Studies | M.A. | GER | ● | | |
| Ethics - Economic, Law and Politics (EELP) | M.A. | ENG & GER | ● | | |
| European Culture and Economy (ECUE) | M.A. | GER | ● | | |
| Film and Audiovisual Media | M.A. | GER | ● | | |
| French Language and Culture | M.A. | GER & FRENCH | | | ◆ |
| Gender Studies - Culture, Communication, Society | M.A. | GER | ● | | |
| General and Comparative Literature | M.A. | GER | ● | | |
| German Studies | M.A. | GER | ● | | ◆ |
| History | M.A. | GER | ● | | ◆ |
| History and Theory of Art and Design | M.A. | GER | | | ◆ |
| Humanitarian Action (NOHA) ‡ | M.A. | ENG | ● | | |
| International Relations and Development Policy | M.A. | GER | | | ◆ |
| Japanese Studies | M.A. | GER | ● | | |
| Journalism | M.A. | GER | | ■ | |
| Korean Studies | M.A. | GER | ● | | |
| Linguistics | M.A. | GER | ● | | |
| Literature and Practical Media Studies | M.A. | GER | | | ◆ |
| Media Science | M.A. | GER | ● | | |
| Medieval and Renaissance Studies (MARS) | M.A. | GER | ● | | |
| Modern and Contemporary Art | M.A. | GER | ● | | |
| Modern East Asia Studies | M.A. | ENG | | | ◆ |
| Music Journalism | M.A. | GER | | ■ | |
| Oriental Studies | M.A. | GER | ● | | |
| Philosophy | M.A. | GER | ● | | ◆ |
| Philosophy and Political Science | M.A. | GER | | ■ | |
| Political Management, Public Policy and Public Administration | M.A. | GER | | | ◆ |
| Prehistory and Ancient History | M.A. | GER | ● | | |
| Protestant Theology | M.A. | GER | ● | | |
| Religious Studies | M.A. | GER | ● | | |
| Romance Studies (Spanish or French or Italian) | M.A. | GER | ● | | |
| Russian Culture | M.A. | GER | ● | | |
| Science Journalism | M.A. | GER | | ■ | |

‡ Tuition

| COURSE | DEGREE | LANGUAGES | RUB <small>RUHR-UNIVERSITÄT BOCHUM</small> | TUDO <small>TECHNISCHE UNIVERSITÄT DUISBURG ESSEN</small> | UDE <small>UNIVERSITÄT DUISBURG ESSEN</small> |
|---|--------|---------------|---|--|--|
| Scenic Research | M.A. | GER | ● | | |
| Sinology | M.A. | GER | ● | | |
| Slavonic Studies | M.A. | GER | ● | | |
| Social Sciences - Management and Regulation of Labour, Economy and Organisation | M.A. | GER | ● | | |
| Social Sciences - Health-Care Systems and Health Management | M.A. | GER | ● | | |
| Social Sciences - Urban and Regional Development | M.A. | GER | ● | | |
| Social Sciences - Globalisation, Transnationalisation and Governance | M.A. | GER | ● | | |
| Social Sciences - Culture and the Individual | M.A. | GER | ● | | |
| Social Sciences - Social Research Methods | M.A. | GER | ● | | |
| Social-scientific Innovation Studies | M.A. | GER | | ■ | |
| Sociology | M.A. | GER | | | ◆ |
| Spanish Language and Culture | M.A. | GER & SPANISH | | | ◆ |
| Survey Methodology | M.A. | GER | | | ◆ |
| Theatre Studies | M.A. | GER | ● | | |
| Theory and Comparison of Changing Political Systems | M.A. | GER | | | ◆ |
| Urban Culture, Society and Space | M.A. | GER | | | ◆ |
| DISCIPLINE EDUCATIONAL SCIENCES AND PEDAGOGICS | | | | | |
| Adult Education | M.A. | GER | | | ◆ |
| Educational Science | M.A. | GER | | ■ | |
| Education Studies | M.A. | GER | ● | | |
| Social Work | M.A. | GER | | | ◆ |
| Rehabilitation Science | M.Sc. | GER | | ■ | |
| Theory and Methodology of Economics Studies | M.A. | GER | | | ◆ |



Ruhr University Bochum
TU Dortmund University
University of Duisburg-Essen

UA Ruhr Liaison Offices in

Latin America:

info.lateinamerika@uaruhr.de

Russia/Eastern Europe/Central Asia:

info@uaruhr.ru

North America:

info@uaruhr.org