

BACHELOR AND MASTER  
PROGRAMMES –  
**TRIER UNIVERSITY  
OF APPLIED SCIENCES**

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Trier University  
of Applied Sciences

H O C H  
S C H U L E  
T R I E R





boundless.  
vibrant.  
visionary.

*Dear prospective international students,*

*about 7,600 young people study and research at our locations in Trier, Idar-Oberstein, and at the Environmental Campus Birkenfeld. This makes us the second biggest University of Applied Sciences in Rhineland-Palatinate. Situated in Trier, our Main Campus Schneidershof, overlooks the historic city from the steep banks of the river Moselle. Additionally, the Campus of Art and Design with its locations Irminenfreihof and Paulusplatz lies in the heart of Trier city.*

Though Trier is Germany's oldest city, it presents itself as young and vibrant due to its universities' attraction for students. According to a research study, no other city in Rhineland-Palatinate is home to such a large number of young people as Trier. The population's average age is 40 years. Especially young people enjoy a great variety of cultural and sporting events as well as gastronomic delights.

The Environmental Campus Birkenfeld creates fascination. With its innovative zero-emission concept the campus is a role model for the sustainable development of a conversion area – in this capacity its influence reaches far beyond the borders of Rhineland-Palatinate. Germany's greenest campus has pursued an ecological concept without compromise from its start.

Our locations in the south-west of Germany offer ideal conditions for academic study and great career options due to their international context and a multitude of job opportunities also in the neighbouring countries Luxembourg, France, and Belgium. Students acquire extensive experience and professional practice due to TUAS's (Trier University of Applied Sciences)



practice oriented scientific education, supervised projects, practical study phases, as well as study semesters abroad.

Close connections with companies ensure a practice and job oriented education. Cooperation agreements with a great number of universities worldwide, degree programmes with dual degrees, and a vibrant exchange between students and professors lend TUAS a distinct international profile.

This brochure will give an overview of the study opportunities offered by one of the practice oriented universities in Germany.

A handwritten signature in black ink that reads "Norbert Kuhn".

Prof. Dr. Norbert Kuhn

President of Trier University of Applied Sciences

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**EBL**

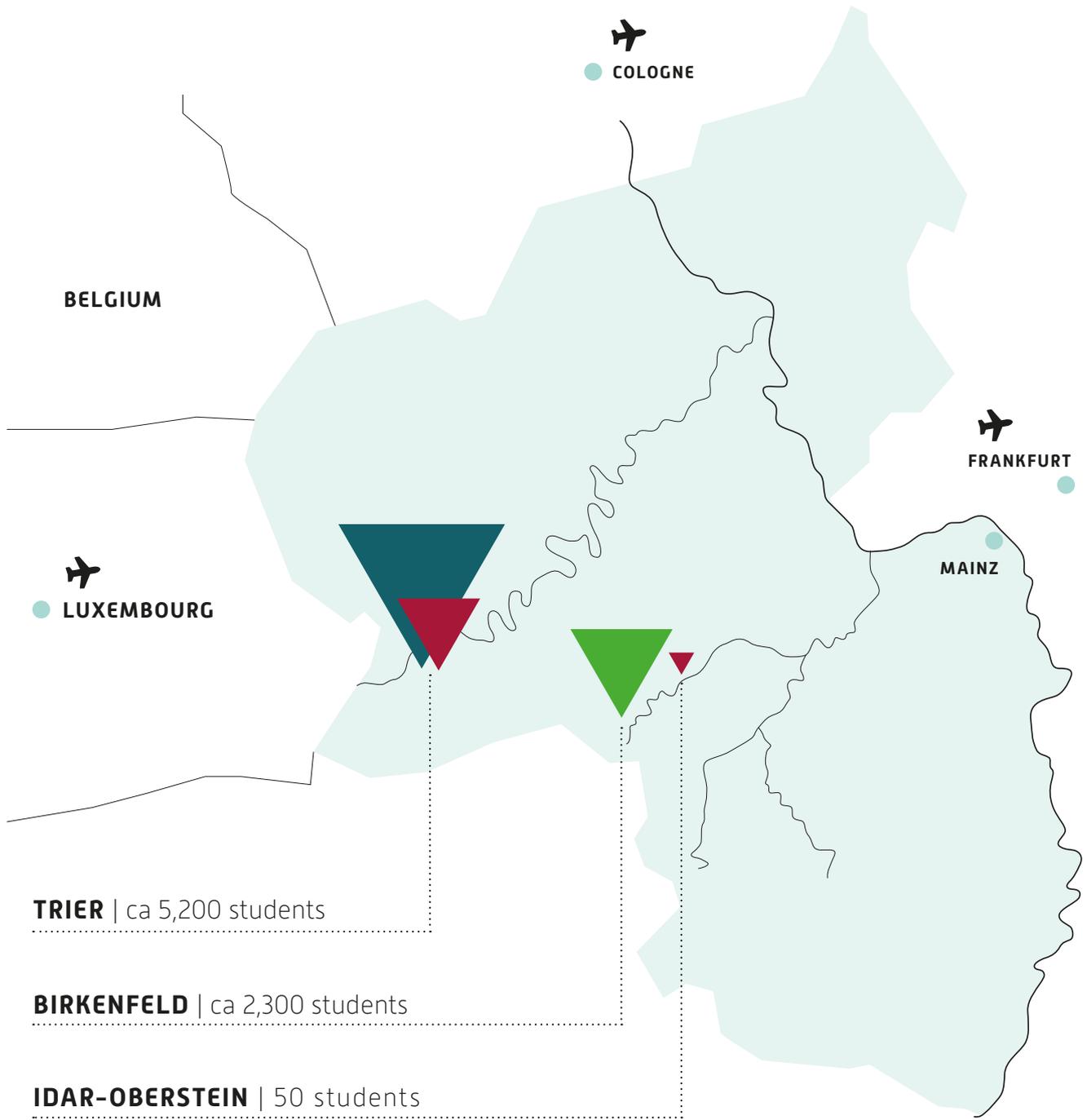
**ENVIRONMENTAL CAMPUS BIRKENFELD**

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<b>DEPARTMENT</b>	<b>STUDY PROGRAMMES</b>	<b>BA</b>	<b>MA</b>	<b>CATEGORY</b>	<b>PAGE</b>
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AD



**TRIER** | ca 5,200 students

**BIRKENFELD** | ca 2,300 students

**IDAR-OBERSSTEIN** | 50 students

# MAIN CAMPUS TRIER



## DEPARTMENTS

- BUSINESS SCHOOL
- CIVIL AND SUPPLY ENGINEERING + FOOD TECHNOLOGY
- COMPUTER + THERAPY SCIENCE
- ENGINEERING



High on the picturesque banks of the Moselle River and overlooking the historic city of Trier, the biggest campus of Trier University of Applied Sciences, the 'Main Campus Schneidershof', is situated. Its buildings, which partly stand out as sites of historic interest, contain the university's main administrative and service facilities. A great variety of Bachelor's and Master's Degrees can be obtained on this campus, which comprises the departments Business Sciences, Civil and Supply Engineering + Food Technology, Computer Science +Therapy Science and Engineering. Its oval shape signifies the close interdisciplinary exchange benefitting the university's numerous cooperation partners and research projects.

Due to the high degree of practice orientation with which research and teaching at Trier University of Applied Sciences (TUAS) are conducted, a multitude of laboratories and workshops are spread across the campus. Most noticeable based on its size and shape is the machine hall – a facility not every university can boast. Students draw immediate profit from their hands-on studies of modern machinery and their constructing and testing of machine components.

TUAS is gearing up for the future and is constantly in motion – more than 5,000 students on the Main Campus make sure of its vibrancy. Furthermore, huge investments in the modernisation of the faculty buildings, the lecture halls, and the outdoor facilities ensure excellent conditions for academic study and research.

Life at TUAS offers far more than seminars, lectures, and examinations. The sports fields in the centre of the campus, various chill-out areas, a barbecue station, and a cafeteria invite students and researchers to enjoy their breaks on the grounds and to participate in campus life. Relaxation in nature, climbing adventures in the high rope course, running, and picnicking etc.. All this is offered in the recreation area Weißhauswald in close proximity to the campus. On its other side, the river Moselle beckons with a wide range of leisure options – from rowing in TUAS's own team to cycling and diverse cultural and gastronomic events at the nearby Moselle embankment 'Zurlaubener Ufer'.

BUSINESS SCHOOL

# BS

The Business School offers bachelor's and master's degree programmes in 'Business Administration', 'International Business', 'Business Information Systems' and 'Industrial Engineering Management'. Close student support, practical relevance, scientific expertise, as well as innovative and internationally-focused teaching are key elements of our philosophy. Our graduates, with their professional skills and specialist knowledge, become valuable employees for a wide range of organizations at home and abroad.



## BUSINESS ADMINISTRATION

The 'Business Administration' degree programme is aimed at students who are interested in a practically-oriented study of business. As well as becoming familiar with the principles and methods of business administration, and related fields such as economics, business law and business information systems, key professional skills, including teamwork and presenting are developed. The degree programme is the ideal preparation for a career in the business world.

	<b>BACHELOR OF ARTS</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German + study semester in English for foreign students
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Opportunity to develop individual interests. Students can focus on two of the following areas: managerial accounting; finance and financial markets; marketing and corporate management; organisation and information management; auditing, taxation and law.
<b>Contact</b>	Prof. Dr. Michael Keilus m.keilus@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-betriebswirtschaft">www.hochschule-trier.de/go/fr-betriebswirtschaft</a> 

## BUSINESS INFORMATION SYSTEMS

The 'Business Information Systems' degree programme is aimed at students who are interested in business administration and information technology. The degree programme teaches to analyse economic problems taking into account the use of information and communication technologies as well as to develop and implement reorganization proposals for efficient task fulfillment. Professionals work at the interface between the management and IT department of a company, government agency or organisation.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Principles and methods of business administration, and related fields such as mathematics, key professional skills, including teamwork and presenting, are developed. Also, structure and functioning of information systems, user interfaces and data processing for users of information systems, software quality as well as IT security and organisation of IT projects are included.
<b>Contact</b>	Prof. Dr. Helge Rieder h.rieder@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-wirtschaftsinformatik">www.hochschule-trier.de/go/fr-wirtschaftsinformatik</a> 

## BUSINESS INFORMATION SYSTEMS – INFORMATION MANAGEMENT

The 'Business Information Systems' master's degree programme is deepening the students' knowledge in information management. It mainly stresses the effective and efficient usage of information technology (IT) in enterprises and non-profit organisation. The topics of strategic IT planning, business process management, data mining and data science as well as architecture, usage and software enhancement of ERP systems are covered in detail.

	MASTER OF SCIENCE
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	120
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Architecture, organisation and development of business information systems, IT-driven methods and techniques to support enterprise decision making, data science, business process management.
<b>Contact</b>	Prof. Dr. Helge Rieder h.rieder@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-wirtschaftsinformatik">www.hochschule-trier.de/go/fr-wirtschaftsinformatik</a> 

## BUSINESS MANAGEMENT

The 'Business Management' degree programme is designed to prepare students for leadership positions in management. The programme is aimed at the development of leadership skills, holistic thinking and acting, as well as decision capability and problem awareness. Students will be able to take over positions in management that involve a high level of abstracting and formalizing analysis, as well as confrontation and constructive solution competence.

	MASTER OF ARTS
<b>Duration</b>	4 semesters
<b>Language</b>	German + study semester in English for foreign students
<b>ECTS</b>	120
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Principles and methods of finance, marketing, accounting, business operations, data science, soft skills & leadership are developed. In addition, case studies are analysed and evaluated in small groups.
<b>Contact</b>	Prof. Dr. Matthias Weimann m.weimann@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-betriebswirtschaft">www.hochschule-trier.de/go/fr-betriebswirtschaft</a> 

## INDUSTRIAL ENGINEERING / ELECTRICAL ENGINEERING

In the 'Industrial and Electrical Engineering' degree programme business and technical skills are taught in cooperation with the Department of Engineering. Students acquire cross-disciplinary skills and knowledge, but also focus on business management. The degree programme offers, at the interface between technical and economic requirements, the best conditions for a successful and interesting career.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Principles and methods of business administration, and related fields such as mathematics and economics, key professional skills, including teamwork and presenting as well as principles of electrical engineering, physics and information technology are developed.
<b>Contact</b>	Prof. Dr. Matthias Weimann m.weimann@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-wirtschaftsingenieurwesen">www.hochschule-trier.de/go/fr-wirtschaftsingenieurwesen</a> 

## INTERNATIONAL BUSINESS

The International Business degree programme is aimed at students who are interested in a practically oriented study of business that prepares them for the wide-ranging challenges of modern professional life. Business management is combined with intercultural competence. Foreign language education and a year abroad complement the business education. The degree programme is the ideal preparation for a career in an international environment.

	<b>BACHELOR OF ARTS</b>
<b>Duration</b>	8 semesters
<b>Language</b>	German (+ electives in English, French and Spanish)
<b>ECTS</b>	240
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Principles and methods of business administration, and related fields such as economics and business law, key professional skills, including teamwork and presenting, are developed. The degree programme also gives a high priority to intercultural and international competence. Therefore, numerous courses are conducted in foreign languages (English, French or Spanish).
<b>Contact</b>	Prof. Dr. Jörg Henzler j.henzler@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/fr-internationalbusiness">www.hochschule-trier.de/go/fr-internationalbusiness</a> 

CIVIL AND SUPPLY  
ENGINEERING +  
FOOD TECHNOLOGY

CF

This department includes the disciplines 'Civil Engineering', 'Food Technology', 'Technical Building Services', 'Supply Systems' and 'Energy Technology'.

This broad spectrum has as focus the basic human needs: housing, infrastructure, food and a secure supply of energy and water. Environmental and climate protection and sustainability play a central role in teaching and research.



## CIVIL ENGINEERING

Beside a broad basic education in the bachelor's degree programme and a specialization in the majors of the master's degree programme, there is a focus on practical aspects through industrial training periods, field trips and projects in cooperation with construction companies and engineering consulting companies of the region.

	BACHELOR OF ENGINEERING	MASTER OF ENGINEERING
<b>Duration</b>	6   7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	180   210	90
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Construction management, structural, traffic, water.	
<b>Contact</b>	Prof. Dr. Thorsten Ebner ebnert@hochschule-trier.de	
<b>Web</b>	<a href="http://www.bauingenieurwesen.hochschule-trier.de">www.bauingenieurwesen.hochschule-trier.de</a> 	

## ENERGY MANAGEMENT

The master's degree programme in 'Energy Management' has the general objective of providing students with a bachelor's degree in building, supply or energy engineering with a second, higher-level qualification that gives them the same credentials as a master's degree from a university, i.a. for promotion and for the careers of the higher service. In particular, students of the consecutive master's programme 'Energy Management' are to be qualified to successfully undertake demanding planning, management and management tasks in companies of the energy intensive industry as well as in the energy industry.

	MASTER OF ENGINEERING
<b>Duration</b>	3 semesters
<b>Language</b>	German
<b>ECTS</b>	90
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Energy management, system optimization, smart grid, smart city.
<b>Contact</b>	Prof. Dr. Jens Neumeister j.neumeister@hochschule-trier.de
<b>Web</b>	<a href="http://www.vt.blv.hochschule-trier.de">www.vt.blv.hochschule-trier.de</a> 

## FOOD TECHNOLOGY | FOOD ECONOMICS

In 'Food Technology' will be gained knowledge in order to produce foods with a high quality in accordance with technological, nutritional, food regulatory and economic aspects. The degree programme in 'Food Technology' provides application-focussed training on the basis of natural and engineering sciences.

	BACHELOR OF ENGINEERING	MASTER OF ENGINEERING
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	90
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Chemistry and physics of food, biology and microbiology, food technology, process technology, product development, food processing technology, packaging technology, food security, economics.	
<b>Contact</b>	Prof. Dr. Enrico Careglio careglio@hochschule-trier.de	
<b>Web</b>	www.hochschule-trier.de/go/lebensmitteltechnik 	

## TECHNICAL BUILDING SERVICES, SUPPLY SYSTEMS, ENERGY TECHNOLOGIES

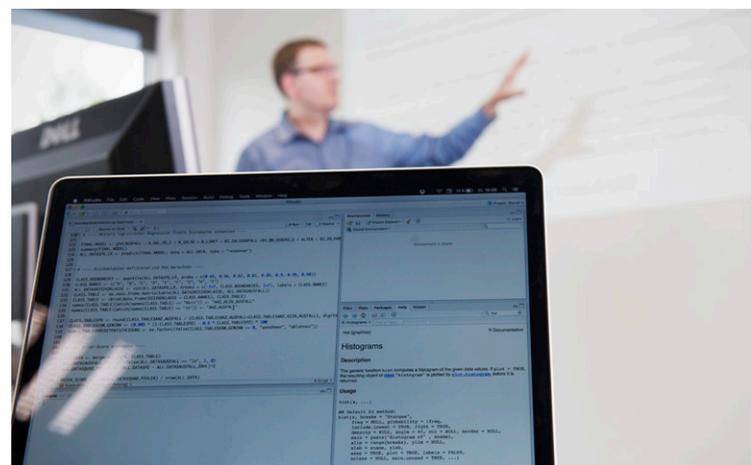
The main idea of the programme is the teaching of competences for the consideration, planning and optimization of buildings, supply engineering and energy technologies. The bachelor's degree programme is intended to tap into the knowledge required for safe and rational planning and optimization of buildings, supply systems and energy systems.

	BACHELOR OF ENGINEERING
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Smart building, smart supply technologies, renewable energies, efficient energy systems.
<b>Contact</b>	Prof. Dr. Jens Neumeister j.neumeister@hochschule-trier.de
<b>Web</b>	www.vt.blv.hochschule-trier.de 

The department of 'Computer Science and Therapy Science' with its 1,300 students provides a wide variety of application-oriented teaching and research in an excellent atmosphere. Apart from degree programmes in general 'Computer Science' we also offer specialisations in 'Digital Media and Games', 'Secure and Mobile Systems' and 'Medical Informatics'. Our master programmes open further possibilities for individual studies. We pay great attention to teaching quality and support for our students. Lectures, hands-on exercises and seminars together with tutorials and teamwork on R&D-projects complete our curricula.

COMPUTER +  
THERAPY SCIENCE

CS



## COMPUTER SCIENCE

Choose this programme to become an IT-allrounder with a solid expertise in all areas of Computer Science, combined with an individual specialization.

The master's programme enhances the basic computer science topics giving focus to more conceptual aspects. Based on formal models and complex methods the students can deepen their knowledge in three different areas of specialization, namely software engineering, game technology, medical informatics.

	BACHELOR OF SCIENCE	MASTER OF SCIENCE
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Programming skills, technical and theoretical aspects of Computer Science, computer networks, databases, project management. Master Degree: Formal methods, modelling, IT security, software quality, software project management, data science and statistics, requirements engineering, specialization modules in game technology and medical informatics.	
<b>Contact</b>	Prof. Dr. Heinz Schmitz - h.schmitz@hochschule-trier.de Prof. Dr. Andreas Lux - a.lux@hochschule-trier.de	
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/iba">www.hochschule-trier.de/go/iba</a> 	

## COMPUTER SCIENCE – DIGITAL MEDIA AND GAMES

Students work with the application-oriented areas 'Digital Media' and 'Digital Game Programming'. The specialization 'Digital Media' focuses on the creation of concepts, design and the implementation of computer based media. Computer game programming requires a profound knowledge of many fields in Computer Science. The course concentrates on aspects for the realisation of computer games, including programming on game consoles.

	BACHELOR OF SCIENCE
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Basics of computer science, media computer science, digital media and games, game programming, basics of digital, graphical and web based media.
<b>Contact</b>	Prof. Dr. Christof Rezk-Salama c.rezk-salama@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/dmss">www.hochschule-trier.de/go/dmss</a> 

## COMPUTER SCIENCE – MEDICAL INFORMATICS

'Medical Informatics' is an interdisciplinary field at the intersection between Computer Science and Medicine. Its primary goal is to achieve a high quality and efficient patient care by improving prevention, diagnosis and treatment in human beings as well as facilitating health services management by the use of modern health information technologies and systems.

	BACHELOR OF SCIENCE
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Medical imaging and image analysis, biosignal processing, medical pattern recognition, computer assisted diagnostics, healthcare sector and public health, health information systems, medical documentation.
<b>Contact</b>	Prof. Dr.-Ing. Jörg Lohscheller j.lohscheller@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/miba">www.hochschule-trier.de/go/miba</a> 

## COMPUTER SCIENCE – SECURE AND MOBILE SYSTEMS

Mobile devices are used in many areas of society. Their use for calling is only one of many functions for which mobile devices are provided. At the same time the number of attacks on mobile devices and networks is increasing tremendously. This highlights the importance of securing those systems and networks with appropriate security measures.

	BACHELOR OF SCIENCE
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Applications for mobile devices, IT security, mobile communication systems and web technologies, system and network security, installation, configuration and administration of networks and information systems.
<b>Contact</b>	Prof. Dr. Konstantin Knorr knorr@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/sms">www.hochschule-trier.de/go/sms</a> 

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## COMPUTER SCIENCE – DISTANCE EDUCATION

The master's degree programme in 'Computer Science' is a career-related, continuing education programme. The distance education programme is geared to career changers who are interested in a qualified further education in Computer Science. Qualified professionals without a formal university entrance qualification can also enrol in the master's programme.

	MASTER OF SCIENCE
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	120
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Practice related modules such as: Introduction to programming, advanced programming techniques, software engineering, database systems, computer networks, embedded systems, project management, automata theory, IT security, communicative skills, Android programming, C# and .NET.
<b>Contact</b>	Gaby Elenz (Dipl. Inf. wiss.) g.elenz@hochschule-trier.de
<b>Web</b>	www.fernstudium.hochschule-trier.de 

## STUDY SEMESTER – COMPUTER SCIENCE

The study semester is an international exchange programme at bachelor's and master's level. It consists of Computer Science courses and projects taught in English and runs each year from April to July. On the bachelor's level we offer a German language course, three courses in specialized areas of Computer Science and two projects either in the field of Internet/IT Security or in an area of expertise of one of our faculty members. On the master's level, we offer a German language course, four courses in specialized areas of Computer Science and one project in an area of expertise of one of our faculty members.

	BACHELOR	MASTER
<b>Duration</b>	1 semester	1 semester
<b>Language</b>	<b>English</b>	
<b>ECTS</b>	30	30
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Bachelor: German language, business information systems, production management with SAP, web technologies, IT security. Master: German language, high performance computing, verification of concurrent software systems, implementation of ERP systems, advanced game technology.	
<b>Web</b>	www.hochschule-trier.de/go/studysemester 	



## OCCUPATIONAL THERAPY DUAL

The dual bachelor's programme with integrated vocational training leads to a close linkage of theoretical background and practical skills. Within the bachelor's programme, students learn to work self-reflected as well as interdisciplinary, and critically assess therapeutic measures and research. On this basis, they get qualified to combine their own clinical experiences with the current research and the needs and wishes of the patients to ensure the best possible therapy.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Focus of study is gaining in-depth clinical competences in practical treatment as well as clinical reasoning and evidence-based practice. Study subjects include andragogics, performance diagnostics and health care management. Students learn to include technology in their diagnostics and therapy.
<b>Contact</b>	Prof. Dr. Juliane Mühlhaus j.muehlhaus@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/dse">www.hochschule-trier.de/go/dse</a> 

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AD

## PHYSIOTHERAPY *DUAL*

The dual bachelor's programme with integrated vocational training leads to a close linkage of theoretical background and practical skills. Within the bachelor's programme, students learn to work self-reflected as well as interdisciplinary, and critically assess therapeutic measures and research. On this basis, they get qualified to combine their own clinical experiences with the current research and the needs and wishes of the patients to ensure the best possible therapy.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Major fields of study are technology and therapy. Technology covers performance diagnostics and performance optimization as well as the application of technology and software. Therapy aims at gaining in-depth clinical competences in practical treatment.
<b>Contact</b>	Prof. Dr. Andreas Künkler kuenkler@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/dsp">www.hochschule-trier.de/go/dsp</a> 

## SPEECH AND LANGUAGE THERAPY *DUAL*

The dual bachelor's programme with integrated vocational training leads to a close linkage of theoretical background and practical skills. Within the bachelor's programme, students learn to work self-reflected as well as interdisciplinary, and critically assess therapeutic measures and research. On this basis, they get qualified to combine their own clinical experiences with the current research and the needs and wishes of the patients to ensure the best possible therapy.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Focus of study is gaining in-depth clinical competences in practical treatment as well as clinical reasoning and evidence-based practice, especially in the fields of literacy, geriatry and multilingualism. Students learn to include new media and technology in their therapy and gain basic skills of economics.
<b>Contact</b>	Prof. Dr. Juliane Mühlhaus j.muehlhaus@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/dsl">www.hochschule-trier.de/go/dsl</a> 

The department of Engineering represents modern engineering education combined with applied research. We offer bachelor's and master's degree programmes in key topics of the future such as electromobility, automotive engineering, internet of things or sports and rehabilitation technology. The direct participation of the students in the department's actual subject of research ensures a practice-oriented education with a profound theoretical background. As the department includes various disciplines in the field of electrical and mechanical engineering, a broad interface competence is essential for all our certified programmes. Next to a practical, scientific education great emphasis is laid on a strong personal support for our students. In addition there are extensive opportunities to cooperate with the industry, for example through our dual study programmes.

ENGINEERING

EN



## ELECTRICAL ENGINEERING

Electric devices and systems affect nearly every aspect of our modern society. Electrical engineers work in a wide range of specialized areas, from power generation and transmission to electronics such as radio frequency systems, telecommunication or signal processing. Based on a profound basic education the bachelor's and master's programme covers all relevant sectors of electricity and electronics. The direct participation of the students in actual research and industry projects ensures practice-oriented training combined with a sound theoretical background.

	BACHELOR OF ENGINEERING	MASTER OF ENGINEERING
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	90
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Foundation courses in mathematics, physics, basic courses of electrical engineering and information technology, laboratory internships, specialization in 'Automation and Power' or 'Information Technology and Electronics' or 'Medical Engineering' (Master only).	
<b>Contact</b>	Prof. Dr. Andreas Diewald a.diewald@hochschule-trier.de	
<b>Web</b>	www.hochschule-trier.de/go/elektrotechnik 	

## ELECTROMOBILITY

'Electromobility' is one of the key aspects of a sustainable mobility for the future – environmentally friendly, resource-conserving and efficient. The bachelor's degree programme 'Electromobility' provides students with the necessary skills to help shape the technological progress of electric mobility. Students can focus their studies on drive technology and energy management or vehicle electronics and information technology.

	BACHELOR OF ENGINEERING
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Foundation courses in mathematics, physics, basic courses of electrical engineering and information technology; electric drive technology, energy technology, battery technology, vehicle electronics, information technology .
<b>Contact</b>	Prof. Dr. Matthias Scherer m.scherer@hochschule-trier.de
<b>Web</b>	www.hochschule-trier.de/go/elektromobilitaet 

## INDUSTRIAL ENGINEERING / ELECTRICAL ENGINEERING

The 'Industrial Engineering' programme with focus on 'Electrical Engineering' provides a profound knowledge in electrical engineering and interface competencies in the increasing complexity of the industrial and economic landscape. The degree programme, which is taught in cooperation with the department of Business School, offers the best conditions for a successful and interesting career.

	BACHELOR OF SCIENCE
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	After fundamental courses, the disciplines 'Economy' or 'Electrical Engineering' (Automation and Power, Information Technology and Electronics, Medical Technology) can be selected.
<b>Contact</b>	Prof. Dr. Dara Feili d.feili@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/elektrotechnik">www.hochschule-trier.de/go/elektrotechnik</a> 

## INDUSTRIAL ENGINEERING / MECHANICAL ENGINEERING

The bachelor's and master's degree programme 'Industrial Engineering' with focus on 'Mechanical Engineering' provides a profound base knowledge in mechanical engineering as well as all relevant competencies in financials, business and management processes. At the interface between technical and economic requirements, the degree programme offers best conditions for a successful and interesting career.

	BACHELOR OF ENGINEERING	MASTER OF ENGINEERING
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Lectures in engineering account for 60% of total ECTS. Courses treat production technologies, operational management, cost accounting, machine tools, optional courses in 'Automotive Engineering' and 'Security Engineering'.	
<b>Contact</b>	Prof. Dr.-Ing. Armin Wittmann a.wittmann@hochschule-trier.de	
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/maschinenbau">www.hochschule-trier.de/go/maschinenbau</a> 	

## INTERNET OF THINGS – DIGITAL AUTOMATION

The internet of things is the most important emerging technology. The bachelor's degree programme 'Internet of Things – Digital Automation' is designed to meet the increasing requirements of a digital connected world. It provides the technological expertise to develop networked devices, to draft appropriate algorithms for data processing and to realize suitable programmes.

	BACHELOR OF ENGINEERING
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Fundamental courses in mathematics, physics, electrical engineering and information technology; automation and digitalization; programming of web applications, embedded systems, robotics, image processing.
<b>Contact</b>	Prof. Dr. Ernst Georg Haffner e.haffner@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/iot">www.hochschule-trier.de/go/iot</a> 

## MECHANICAL ENGINEERING

The bachelor's and master's degree programme 'Mechanical Engineering' includes technical foundation courses as well as highly specialized courses. Students can focus their studies on the alternative disciplines 'General Mechanical Engineering' and 'Automotive Engineering', both with special emphasis on CAD, CAM and CAE.

	BACHELOR OF ENGINEERING	MASTER OF ENGINEERING
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Main Campus Trier	
<b>Key Aspects</b>	Mathematics, mechanics, materials, thermodynamics, CAD, design, machine tools, automotive engineering; specialization in 'General Mechanical Engineering' or 'Automotive Engineering'.	
<b>Contact</b>	Prof. Dr.-Ing. Peter König koenig@hochschule-trier.de	
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/maschinenbau">www.hochschule-trier.de/go/maschinenbau</a> 	

## MEDICAL ENGINEERING

The 'Medical Engineering' course provides an engineering degree programme closely linked to medical applications. It covers medical product lifecycle, research, development, clinical assessment as well as production processes.

	<b>BACHELOR OF SCIENCE</b>
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Development of medical electrical devices, CE-marking of medical devices, quality- and risk management, biosignal processing, scientific and (electrical) engineering basics.
<b>Contact</b>	Prof. Dr. Klaus Peter Koch k.koch@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/medizintechnik">www.hochschule-trier.de/go/medizintechnik</a> 

## SAFETY ENGINEERING

Occupational safety is one of the aspects every employer has to deal with. Next to legal obligations economic considerations play a major role. The 'Safety Engineering' programme combines a fundamental education in mechanical engineering with all relevant safety issues to be considered in work life. Emphasis is laid on occupational safety, technical safety and a basic psychological knowledge. Several projects allow the practical application of the theoretical learning contents.

	<b>BACHELOR OF ENGINEERING</b>
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Foundation courses in mathematics, mechanics, materials, thermodynamics, CAD; focus on technical security, environmental management, production assurance and quality management.
<b>Contact</b>	Prof. Dr. rer. nat. Lars Draack draack@hochschule-trier.de
<b>Web</b>	<a href="http://www.hochschule-trier.de/go/maschinenbau">www.hochschule-trier.de/go/maschinenbau</a> 

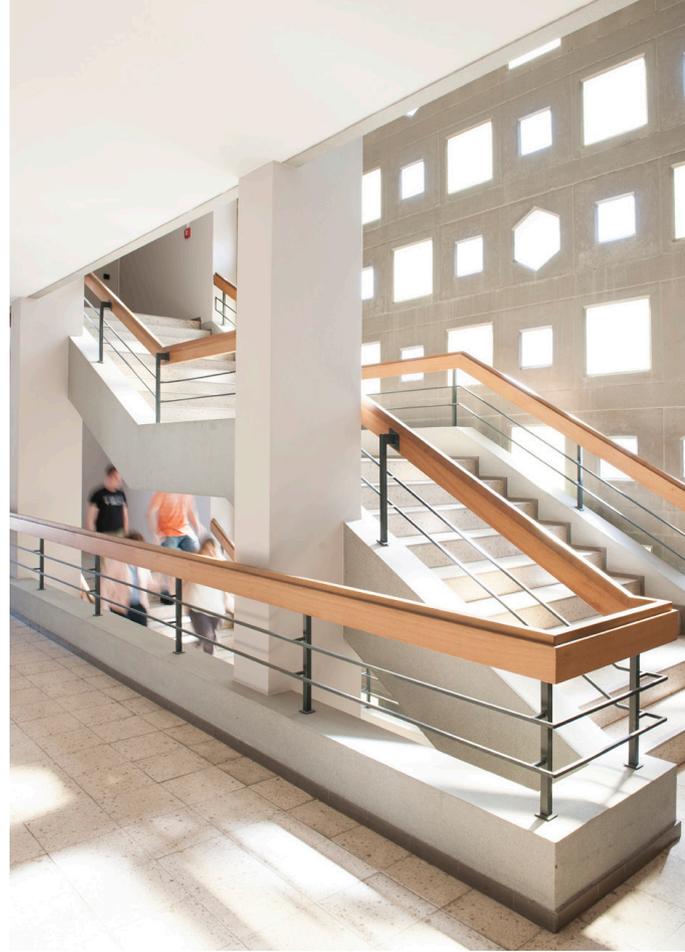
## SPORTS- AND REHABILITATION TECHNOLOGY

The bachelor's degree programme 'Sports- and Rehabilitation Technology' combines a profound education in mechanical engineering with medical knowledge and medical technology. Medical devices are essential in prevention, diagnostics and treatment of human beings as well as in rehabilitation. Consistent research and development aims at achieving a high quality and efficient patient care. The 'Sports- and Rehabilitation Technology' course is particularly concerned with problems based on mechanical or motoric aspects.



	<b>BACHELOR OF ENGINEERING</b>
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Main Campus Trier
<b>Key Aspects</b>	Fundamental courses in mathematics, physics, mechanics, machine tools, CAD, information technology and medicine, medical measurement, specialized courses in physiotherapy, construction and medical engineering.
<b>Contact</b>	Prof. Dr.-Ing. Armin Wittmann a.wittmann@hochschule-trier.de
<b>Web</b>	www.hochschule-trier.de/go/maschinenbau 





# ENVIRONMENTAL CAMPUS BIRKENFELD



## DEPARTMENTS

- ENVIRONMENTAL BUSINESS / ENVIRONMENTAL LAW
- ENVIRONMENTAL PLANNING / ENVIRONMENTAL TECHNOLOGY



Live, learn and work at a unique place. The Environmental Campus Birkenfeld, a campus of Trier University of Applied Sciences, is one-of-a-kind. It offers students an interdisciplinary education at the only 'Zero Emission University' in Europe. Innovative and ecological building standards are complemented by modern utility technology and sustainable water management systems. The electricity and heat demand of the campus is covered by renewable energy sources, provided by a neighbouring biomass-combined heat and power plant.

Guided by an environment oriented framework, we offer a future-oriented education to more than 2,300 students in our two departments 'Environmental Planning / Environmental Technology' and 'Environmental Business / Environmental Law'. Sustainability and environmental consciousness provide the link between the Bachelor's and Master's degree programmes and promote an intensive and interdisciplinary cooperation between the disciplines. Connecting ecologic, economic, technical and social matters enables our students to analyse and optimise complex systems later on in their careers. This is not taught only in theory. Students have the opportunity to implement the acquired knowledge and skills into practice in regional partner companies and numerous research institutes at the Environmental Campus.

Thanks to our large number of international partner universities and foreign language courses, students can easily enhance their international and linguistic competences.

ENVIRONMENTAL BUSINESS /  
ENVIRONMENTAL LAW

# EBL

The department of 'Environmental Business and Environmental Law' offers a futur-oriented education in sustainable business management and law. The connection of ecologic, economic, technical, and legal matters enables our students to analyse and optimise complex systems later on in their careers. This is not taught only in theory. Students have the opportunity to implement the acquired knowledge and skills into practice in regional partner companies. Real-life business projects as well as training in organisation, methods and communication skills complete our students' academic and personal profile.



## BUSINESS AND ENVIRONMENTAL LAW / BUSINESS AND ENERGY LAW

The study programme 'Business and Environmental Law' qualifies the students to solve complex questions in business, environmental and energy law. The course is created interdisciplinary: it connects deep skills in law, business administration and languages.

The programme 'Business and Energy Law' ties traditional expertise in law to environmental law as well as energy-management legislation and energy law. Beside being educated in basic law subjects together, students have the opportunity to focus their studies on business and corporate or environmental and energy.

	BACHELOR OF LAWS	MASTER OF LAWS
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	90
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Business and corporate law in addition to environmental law and environmental accountability, energy-management legislation and environmental energy law, environmental administrative law.	
<b>Web</b>	<a href="https://www.umwelt-campus.de/ucb/index.php?id=8299&amp;L=1">https://www.umwelt-campus.de/ucb/index.php?id=8299&amp;L=1</a> <a href="https://www.umwelt-campus.de/ucb/index.php?id=8294&amp;L=1">https://www.umwelt-campus.de/ucb/index.php?id=8294&amp;L=1</a>	
	 	

## ENVIRONMENTAL ECONOMICS AND BUSINESS MANAGEMENT

We give our students an assortment of various business disciplines, coupled with economic and ecological expertise, to send our students on the way into a promising future.

The master's degree programme 'Environmental and Business Management (Master of Arts)' combines the professional development of the students and their intellectual interests with the intensive discussion of important problems and challenges in society as a whole. Students acquire deepen knowledge of business management and sustainable economic activities with regard to aspects like climate change and shortage of resources.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Sustainability and corporate value chain, green tech, green transformation, sustainable macro-economics, finance management/ controlling, marketing/ digitization, business computer science (logistics/business information systems).	
<b>Contact</b>	Prof. Reinhold Moser - ubw@umwelt-campus.de Prof. Dr. Thorsten Schaper - master-ubw@umwelt-campus.de	
<b>Web</b>	<a href="http://www.umwelt-campus.de/umwelt-betriebswirtschaft">www.umwelt-campus.de/umwelt-betriebswirtschaft</a>	
		

## INSOLVENCY LAW AND REORGANIZATION PROCEEDINGS

This master's degree programme lasts four semesters and includes in-depth knowledge and skills in central areas of insolvency law and procedures / tasks within the framework of reorganization procedures. After completing their studies, students are able to advise companies in crisis externally or internally and to take the legally and economically necessary measures. They recognize the framework conditions and the chances of reorganization measures for maintaining a business and can implement them in a legally secure manner.

	MASTER OF LAWS
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	90
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Bankruptcy law, business administration, insolvency law, taxes and finance, restructuring and business rehabilitation.
<b>Contact</b>	Prof. Dr. Hubert Schmidt h.schmidt@umwelt-campus.de
<b>Web</b>	<a href="http://www.umwelt-campus.de/insolvenzrecht">www.umwelt-campus.de/insolvenzrecht</a> 

## INTERNATIONAL MATERIAL FLOW MANAGEMENT

'International Material Flow Management (M.Eng. )' features innovative study programmes facilitating holistic business and technology management strategies through a combination of engineering, economics, environmental, social and cultural sciences.

The 'International Material Flow Management (M.Sc.)' focuses primarily on green (business and regional) growth concepts, combining interdisciplinary green business management, environmental engineering, as well as social and natural sciences.

	MASTER OF ENGINEERING   MASTER OF SCIENCE
<b>Duration</b>	4 semesters
<b>Language</b>	English
<b>ECTS</b>	120
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Two theoretical semesters followed by an internship semester in a company (research institute or other organization) or a practical study semester abroad. The fourth semester is reserved for the completion of the Master Thesis in a company/ institution of your choice.
<b>Contact</b>	IMAT Administration Office imat@umwelt-campus.de
<b>Web</b>	<a href="http://www.umwelt-campus.de/imat-meng">www.umwelt-campus.de/imat-meng</a> <a href="http://www.umwelt-campus.de/imat-msc">www.umwelt-campus.de/imat-msc</a>  

## STUDY SEMESTER – PRINCIPLES OF SUSTAINABLE BUSINESS

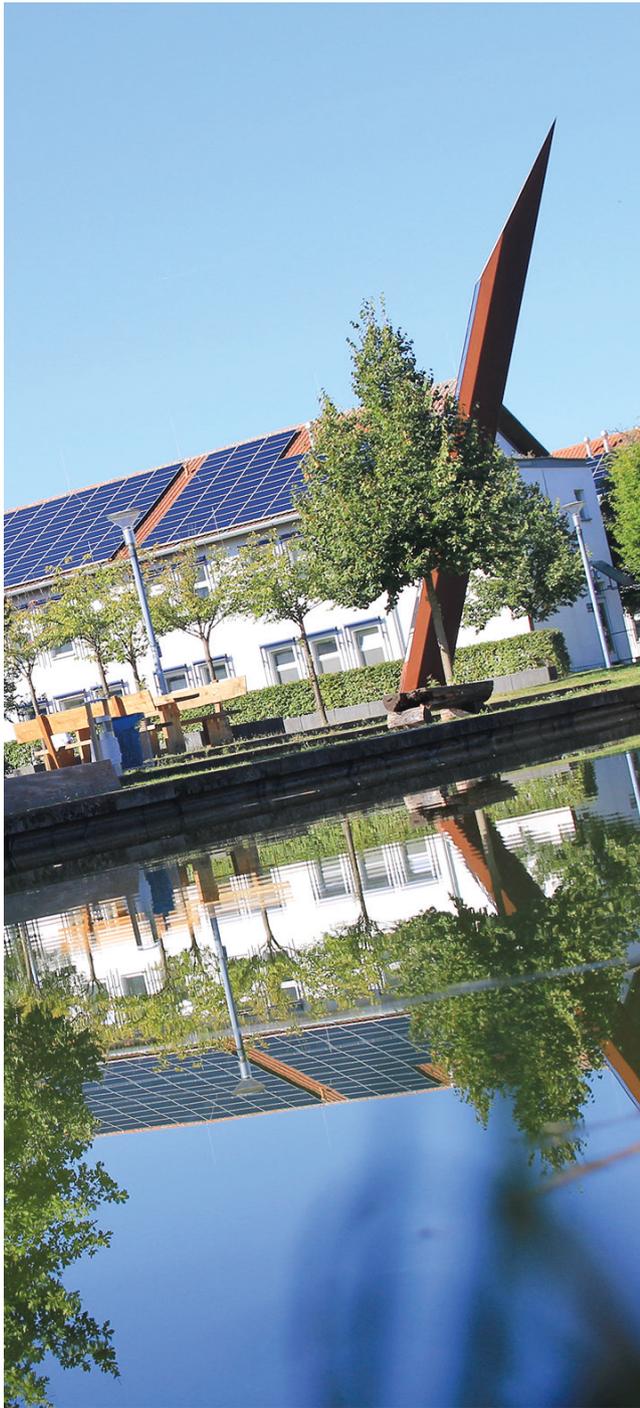
20 students from all over the world are invited to take part in a one or two semester intensive course in sustainable management as part of an interdisciplinary team. In today's globalized world, topics such as climate change or resource management can only be solved by combining up-to-date interdisciplinary knowledge from economics, business studies, environmental sciences and law. In addition, students take part in workshops and visit fascinating business and cultural sites.

	BACHELOR
<b>Duration</b>	1   2 semesters
<b>Language</b>	English
<b>ECTS</b>	30   60
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Sustainable business, international communication, industrial ecology, life cycle assessment, financial modeling, entrepreneurial management, strategic marketing, sustainable technology, business models, solar energy, material flow management, German culture, climate change.
<b>Web</b>	<a href="http://www.umwelt-campus.de/studysemester">www.umwelt-campus.de/studysemester</a> 

## SUSTAINABLE BUSINESS AND TECHNOLOGY

Students will study business and engineering through innovative learning concepts. Our focus on sustainability, green technologies, and a globally interrelated perspective provides future graduates with excellent key qualifications and enables them to master the challenges of our time. Real-life business projects as well as training in organization, methods and communication skills complete our students' academic and personal profile. As a special benefit, German language and intercultural communication modules will pave the way for a possible professional life in Germany or German enterprises abroad.

	BACHELOR OF ENGINEERING
<b>Duration</b>	6 semesters
<b>Language</b>	English
<b>ECTS</b>	180
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Natural sciences, management & entrepreneurship, engineering sciences, environmental sciences, sustainable business, international communication, german language, scientific methods & concepts, ethics & society.
<b>Contact</b>	Prof. Dr. Christian Kammlott <a href="mailto:c.kammlott@umwelt-campus.de">c.kammlott@umwelt-campus.de</a>
<b>Web</b>	<a href="http://www.umwelt-campus.de/sbt">www.umwelt-campus.de/sbt</a> 



## SUSTAINABLE CHANGE – FROM KNOWLEDGE TO ACTION

The master's programme 'Sustainable Change', which started in the 2016 summer semester, is the result of an intensive cooperation between the Environmental Campus Birkenfeld and the European Academy Otzenhausen with her initiative 'Encouraging Sustainability – from Knowledge to Action' („Mut zur Nachhaltigkeit – Vom Wissen zum Handeln“; [www.mut-zur-nachhaltigkeit.de](http://www.mut-zur-nachhaltigkeit.de)). The main target is to develop and teach skills, which shall qualify the students for implementing sustainability in professional surroundings.

	MASTER OF ARTS
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	120
<b>Location</b>	Environmental Campus Birkenfeld *
<b>Key Aspects</b>	The earth system, economic systems, socio-political systems, encouraging sustainability, sustainable technology systems, economic change, socio-political change, excursions – A place for learning: Field trips dealing with sustainable change, elective module, philosophy of science/communication.
<b>Contact</b>	Prof. Dr. Dirk Löhrl <a href="mailto:sc@umwelt-campus.de">sc@umwelt-campus.de</a>
<b>Web</b>	<a href="http://www.umwelt-campus.de/sustainablechange">www.umwelt-campus.de/sustainablechange</a> 

At the department of 'Environmental Planning and Environmental Technology' committed professors teach in several accredited bachelor's degree and master's degree programmes focusing on mechanical engineering, process engineering, industrial engineering as well as computer science. Course content in all of our degree programmes is linked to environmental issues and sustainability. The faculty provides modern-equipped laboratories and technical centres.

ENVIRONMENTAL  
PLANNING /  
ENVIRONMENTAL  
TECHNOLOGY

EPT



## APPLIED COMPUTER SCIENCE

Applied Computer Science is concerned with understanding, designing, implementing, testing and using computing systems, ranging in scale and complexity from small IoT-devices to the global internet. It is dedicated to real-world training and practical problem solving with engineering as application area. The master's programme gives students the opportunity to deepen their knowledge. Moreover, students will have the choice between either robotics or environmental informatics and business information systems as application area.

	BACHELOR OF SCIENCE	MASTER OF SCIENCE
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	90
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Programming, algorithms and data structures, software engineering, operating systems, databases, computer architectures, distributed systems, mathematics, statistics, communication skills, economics, law, technical English, 18 week internship. Master's programme: either robotics or environmental informatics and business information systems as application area.	
<b>Contact</b>	Prof. Dr. Rolf Krieger - r.krieger@umwelt-campus.de Prof. Dr. Stefan Naumann - informatik@umwelt-campus.de	
<b>Web</b>	www.umwelt-campus.de 	

## BIOLOGICAL AND PHARMACEUTICAL ENGINEERING

The study programme focuses on imparting professional qualifications in the fields of biotechnology and pharmaceutical engineering. The students will learn the production processes as well as the knowledge of biochemical analysing techniques to determine which substance needs to be analysed at which point of the process considering the quality control in the process of an authorisation of substances.

	BACHELOR OF SCIENCE
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Bioprocess and pharmaceutical engineering, environmental sustainability, sustainable material flow management, techniques and technologies in the field of bioprocess, environmental and integrated process engineering technology. Possible integration of a vocational training as Chemical Lab Technician, Biology Lab Technician or Pharmaceutical Production Technician.
<b>Contact</b>	Prof. Dr. Anne Schweizer a.schweizer@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## BIOPROCESS, ENVIRONMENTAL AND PROCESS ENGINEERING | BIOPROCESS AND PROCESS ENGINEERING

Bachelor students will be equipped with the essential skills to develop efficient process-related solutions in these fields (e.g. plant engineering, process control and manufacturing), offering career prospects in research and development or public administration. The programme can be extended to seven semesters including a practical semester or stay abroad.

In the master's degree programme students will deepen their knowledge in the field of analysis, design, and optimisation with special regard to complex holistic processes.

	BACHELOR OF ENGINEERING	MASTER OF SCIENCE
<b>Duration</b>	6   7 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180   210	120
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Bioprocess, environmental and integrated process engineering; technical processes, environmental sustainability and sustainable material flow management; techniques and technologies in the field of bioprocess, environmental and integrated process engineering Master: specialisation between bioprocess engineering and process engineering	
<b>Contact</b>	Prof. Dr. Susanne Peifer-Gorges - s.peifer-gorges@umwelt-campus.de Prof. Dr.-Ing. Ulrich Bröckel - master-npv@umwelt-campus.de	
<b>Web</b>	www.umwelt-campus.de 	

## DIGITAL PRODUCT DEVELOPMENT – MECHANICAL ENGINEERING

Mechanical engineering links product development, production planning, and production via integrated information systems, in order to digitally map these processes in a holistic manner. The goal of the degree programme is to impart upon students in-depth knowledge of the application of computerised methods in a broad range of industrial work processes. Graduates will be able to complete challenging tasks in development, construction, planning, and production using modern computer technology (Industry 4.0).

	MASTER OF ENGINEERING
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	120
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Master's students focus on mathematics, computer science, engineering, the structure and administration of operating systems, data bases, the creation of 3D CAD models and their simulation, mechatronics, robotics, digital factory planning, as well as machine tools programming, application of product planning-programs, and control programmes as used in the Industry 4.0.
<b>Contact</b>	Prof. Dr.-Ing. Uwe Krieg master-dpe@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## ENVIRONMENTAL INFORMATICS AND BUSINESS INFORMATION SYSTEMS

Students develop a strong background knowledge of a wide range of topics in Computer Science and Sustainable Business and Technology. It imparts the practical techniques of programming computers to solve real and difficult problems. In particular it addresses e.g. the problem of how modern information technology (IT) can be used in an energy efficient way (Green IT) or how IT can help to solve environmental and business problems.

	BACHELOR OF SCIENCE
<b>Duration</b>	7 semesters
<b>Language</b>	German
<b>ECTS</b>	210
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Programming, algorithms and data structures, software engineering, databases, mathematics, statistics, technical English, communication skills, ecosystems, business information systems, geographical information system, renewable energies and environmental information systems, business studies, 18 weeks internship.
<b>Contact</b>	Prof. Dr. Rolf Krieger r.krieger@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## ENVIRONMENTALLY ORIENTED ENERGY TECHNOLOGY

The master's degree programme Environmental Energy Technology addresses fundamental questions in the field of traditional energy technology, and places particular emphasis on efficient energy production and use. Developments and processes in the sectors of energy and environmental technology are examined critically in regards to their global contributions to environmental protection. The programme focuses in particular on modern energy-saving technology in the sectors renewable energy and energy-efficient ventilation technology.

	MASTER OF SCIENCE
<b>Duration</b>	4 semesters
<b>Language</b>	German
<b>ECTS</b>	120
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Fourier- and laplace transformations, process control engineering, advanced analysis, plant design, electrical engineering, physics, embedded systems, power plant and combustion technology, energy systems engineering and efficient use of energy, heat recovery, energy efficient ventilation and air conditioning, energy use and energy management of renewable energy.
<b>Contact</b>	Prof. Dr.-Ing. Klaus Brinkmann k.brinkmann@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## INDUSTRIAL ENGINEERING/ ENVIRONMENTAL PLANNING | BUSINESS ADMINISTRATION AND ENGINEERING

The Industrial Engineering/Environmental Planning course is based on an interdisciplinary balance between engineering, business economics and law. One of the objectives of the programme is to impart a sound understanding and knowledge of the ecological structuring in the industry sector.

The main areas of study the master's degree course addresses are: business economics and engineering. The emphasis on business management in utility and waste management industries enables graduates to assume management positions in communal and regional utility and waste management industries.

	BACHELOR OF SCIENCE	MASTER OF SCIENCE
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Interdisciplinary problem solving concepts in production, waste disposal, logistics, energy management, implementation of environmentally compatible operating sequences, certification of companies, organization of operational environmental protection; Master's students focus on technical, methodical and social competencies in the fields of mathematics, computer science, statistics, engineering, business administration.	
<b>Contact</b>	Prof. Dr. Kerstin Giering - k.giering@umwelt-campus.de Prof. Dr. Jochen Struwe - j.struwe@umwelt-campus.de	
<b>Web</b>	www.umwelt-campus.de 	

## MECHANICAL ENGINEERING – PRODUCT DEVELOPMENT

The mechanical engineering degree programme equips students with an in-depth knowledge and the essential know-how required to analyse, structure, and process a myriad of technical tasks in a goal-oriented, scientific manner. Furthermore, the course offers students a variety of opportunities to acquire profound knowledge of product development, and business and technology management, particularly with regard to the practical implementation of computer-based technologies.

	BACHELOR OF ENGINEERING
<b>Duration</b>	6 semester
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Mathematics, statistics, natural sciences, engineering sciences, economic fundamentals, rhetoric/reasoning/presentation techniques, technical English, modern IT infrastructure, fundamentals of programming, engineering internship.
<b>Contact</b>	Prof. Dr.-Ing. Thomas Preußler t.preussler@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## MEDIA INFORMATICS

The degree programme Media Informatics is a convergence of creative digital media design and the implementation through computer science. Media computer science specialists programme and design, for example, interactive multimedia systems and websites. Due to the broad range of knowledge and abilities, which students acquire during the programme, they benefit from excellent career opportunities in various sectors of the information industry.

	BACHELOR OF SCIENCE	MASTER OF SCIENCE
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	90
<b>Location</b>	Environmental Campus Birkenfeld	
<b>Key Aspects</b>	Programming languages, software engineering, databases, computational visualistics, audio/video media production, 3D-modelling, communication skills, mathematics, economics, law, professional terminology in English    Master: theoretical, practical and applied computer science, applied mathematics, environmental and geographic information systems, media science and media communication.	
<b>Contact</b>	Prof. Dr. Tim Schönborn t.schoenborn@umwelt-campus.de	
<b>Web</b>	www.umwelt-campus.de 	

## PRODUCTION TECHNOLOGY

The programme Production Technology combines a bachelor of engineering with a vocational training with a focus on production technology. A combined degree programme links in-depth academic studies with practical hands-on experience. During the non-academic training phases students receive a salary, hence benefiting from financial security.

	BACHELOR OF ENGINEERING
<b>Duration</b>	8 semesters
<b>Language</b>	German
<b>ECTS</b>	180 + one year industrial training
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	The concept of the combined degree programme includes training in a cooperative association consisting of industrial firms, chambers, and trade schools in the region as well as cooperating training-centers and the Environmental Campus.
<b>Contact</b>	Prof. Dr.-Ing. Thomas Preußler t.preussler@umwelt-campus.de
<b>Web</b>	www.umwelt-campus.de 

## RENEWABLE ENERGIES

The subject of Renewable Energies focuses on the well-founded theoretical and project-based, hands-on training in the fields of engineering, business administration and law.

	BACHELOR OF SCIENCE
<b>Duration</b>	6 semesters
<b>Language</b>	German
<b>ECTS</b>	180
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Renewable Energies, in particular solar, wind and bioenergy, strong interdisciplinary orientation by close link between technical, business and legal issues, hands-on training by project work and thesis with questions directly from the industry.
<b>Contact</b>	Prof. Dr. Henrik te Heesen h.teheesen@umwelt-campus.de
<b>Web</b>	<a href="http://www.umwelt-campus.de">www.umwelt-campus.de</a> 

## STUDY PROGRAM – ENVIRONMENT AND TECHNOLOGY

The study programme is a one semester course that provides students with a key qualification in environmental friendly technologies. The students work with experts in the field of environmental technology at the Environmental Campus Birkenfeld and gain experience in environmental related technologies and sciences acquired by lab work and teamwork in interdisciplinary projects.

	BACHELOR
<b>Duration</b>	1 semester
<b>Language</b>	English
<b>ECTS</b>	30
<b>Location</b>	Environmental Campus Birkenfeld
<b>Key Aspects</b>	Chemistry and ecology, international communication, sustainable technology, lab work, science project, filed courses, german language.
<b>Contact</b>	<a href="mailto:studyprogram@umwelt-campus.de">studyprogram@umwelt-campus.de</a>
<b>Web</b>	<a href="http://www.umwelt-campus.de/studyprogram">www.umwelt-campus.de/studyprogram</a> 



# CAMPUS OF ART AND DESIGN

IRMINENFREIHOF, PAULUSPLATZ,  
IDAR-OBERSTEIN

## DISCIPLINES

- ARCHITECTURE
- COMMUNICATION DESIGN
- FASHION DESIGN
- GEMSTONE AND JEWELLERY
- INTERIOR ARCHITECTURE
- INTERMEDIA DESIGN



At the Campus of Art and Design, more than one thousand students conduct their studies in a vibrant interdisciplinary and intercultural exchange. The unique campus consists of two locations: the buildings Irminenfreihof and Paulusplatz in the heart of Trier city, which home the disciplines 'Architecture', 'Intermedia Design', 'Interior Architecture', 'Fashion Design', and 'Communications Design', as well as the location in the traditional city of gemstones, Idar-Oberstein, where the university's unique curriculum 'Gemstone and Jewellery' is taught. The creative faculties' infrastructure does not only consist of traditional workshops like a bookbindery, a photo studio and a wood and metal workshop, but it also features modern 3D laboratories, a portal milling machine, and up-to-date computer pools.

The design faculty's curriculum is characterised by an open and transparent structure, which enables the cultivation of creative border-crossings. Students can thus study and work in an interdisciplinary environment. The innovative venture of architecture, design, and media on the Campus of Art and Design constantly brings forth modern and future-oriented projects, which are regularly distinguished with awards. Its creative potential, which finds expression in a multitude of recurring events, fashion shows, and exhibitions, has rendered the Campus of Art and Design a fixed part in Trier's diverse cultural landscape.

## ART AND DESIGN

# AD

The department of Art and Design includes six disciplines: 'Architecture', 'Communication Design', 'Fashion Design', 'Interior Architecture' and 'Intermedia Design' in Trier as well as 'Gemstone and Jewellery' in Idar-Oberstein.

These disciplines compliment and enrich each other through a lively interdisciplinary exchange. Apart from the acquisition of specific professional knowledge, students are further given the opportunity to get to know other areas in the field of design.



## ARCHITECTURE

Architects are just as obliged to the social assignment of construction culture, as they are to the advancement of architectural design under the application of the latest scientific findings, technical developments and, not least, of shape- and spacegiving factors. Interdisciplinary educational elements, as found in the complexity of shape- and formgiving degree programmes, complement the core education and methodological competence in the field of architecture.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	
<b>ECTS</b>	180	120
<b>Location</b>	Campus of Art and Design Trier	
<b>Key Aspects</b>	Aesthetic, spatial, technical and economic relations in the area of architecture and urban development, concept and structural design, engineering, architectural drawing, analog and digital presentation, digital design processes, timber construction (building prototypes), construction, history of architecture, building and art.	
<b>Contact</b>	Office Architecture ar.sekretariat@hochschule-trier.de	
<b>Web</b>	www.hochschule-trier.de/go/architektur	
		

## COMMUNICATION DESIGN

In the degree programme 'Communication Design' the artistic, conceptional and compositional creativity is linked to formative and technical competence. Students solve design related tasks in the fields of social information transfer through text, images and sound. The bachelor's and master's degree in 'Communication Design' trains designers for jobs in the field of visual communication. The study offers the basis for a versatile profession in advertising agencies, design studios, publishers and television companies.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	6   7   8 semesters *	2   3   4 semesters *
<b>Language</b>	German	
<b>ECTS</b>	180   210   240	60   90   120
<b>Location</b>	Campus of Art and Design Trier	
<b>Key Aspects</b>	Book illustration, digital media, experimental design, product and packaging design, typography, video, new media, advertisement, drawing and character design, photography.	
<b>Contact</b>	Office Communication Design kd.sekretariat@hochschule-trier.de	
<b>Web</b>	www.kommunikationsdesign-trier.de	
		

\* 7th | 8th and 3rd | 4th semesters include a practical semester

## FASHION DESIGN

Trier University of Applied Sciences has the longest standing tradition among the German fashion academies.

Fashion design has been taught in Trier since 1922.

The necessity for constant updates on new technology as well as changing social factors require an increased perceptive talent, flexibility and the capability of making decisions. The qualification is aimed especially at the feeling for color and material, the demand for proportion and appearance.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	7 semesters	3 semesters
<b>Language</b>	German	
<b>ECTS</b>	210	120
<b>Location</b>	Campus of Art and Design Trier	
<b>Key Aspects</b>	Design basics, pattern construction, academic drawing, chromatics, fashion illustration, technical drawing, design and art history, cultural history, CAD, draping, designing women's and men's outer garments, knitting, 3-D technics, basics in sewing technology and production.	
<b>Contact</b>	Office Fashion Design mode.sekretariat@hochschule-trier.de	
<b>Web</b>	www.hochschule-trier.de/go/mode 	

## GEMSTONES AND JEWELLERY

Students of Fine Arts in 'Gemstones and Jewellery Design' embark on the search for their place and role as jewellery makers in today's society. Particular our location in Idar-Oberstein, a global trading centre for gemstones, gives special meaning to the debate over gemstones as a material. Moreover, an experimental approach to other materials is expressly encouraged, as our BFA and MFA study programmes have the development of students' own artistic expression as their primary objective.

	BACHELOR OF FINE ARTS	MASTER OF FINE ARTS
<b>Duration</b>	6 semesters	4 semesters
<b>Language</b>	German	English
<b>ECTS</b>	180	120
<b>Location</b>	Campus of Art and Design Idar-Oberstein	
<b>Key Aspects</b>	Practical: gemstone and jewellery art, two- and three-dimensional design, photography and CAD Theoretical: art management, mineralogy, metallurgy, history of jewellery, humanities, art theory and business foundation.	
<b>Contact</b>	Office Gemstone and Jewellery esd.sekretariat@hochschule-trier.de	
<b>Web</b>	www.hochschule-trier.de/go/esd 	

## INTERIOR ARCHITECTURE

The degree programme 'Interior Architecture' educates design specialists for interior spaces within an architectural context. The sound shape of our environment requires design competences under consideration of functional, ecological, economic and social framework conditions. Students develop spatial concepts on the modification of existing architecture, on the design of ephemeral buildings as well as on exhibition and stage architecture. Furniture construction can be elected as a specialized subject.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	8 semesters	2 semesters
<b>Language</b>	German	
<b>ECTS</b>	240	60
<b>Location</b>	Campus of Art and Design Trier	
<b>Key Aspects</b>	Design, interior design and furniture design under functional and constructive aspects, form finding through digital methods, visualization, construction of models and prototypes.	
<b>Contact</b>	Office Interior Architecture ina.sekretariat@hochschule-trier.de	
<b>Web</b>	www.ina-trier.de 	

## INTERMEDIA DESIGN

The 'Intermedia Design' programme offers students the possibility to acquire state of the art skills for designing web and mobile applications, digital games, advanced human-computer interfaces, new applications for video and 3D design and for coupling virtual and real spaces. Due to the constantly evolving technologies, there are always new design possibilities that make the professional field of an intermedia designer dynamic and exciting.

	BACHELOR OF ARTS	MASTER OF ARTS
<b>Duration</b>	6   7 semesters *	3   4 semesters *
<b>Language</b>	German	
<b>ECTS</b>	180   210	90   120
<b>Location</b>	Campus of Art and Design Trier	
<b>Key Aspects</b>	Games and 3D, hypermedia, interactive and mobile media, spatial media design, smart and interactive environments, narrative formats, audio and video, theory and practice of intermedia and cross media communication.	
<b>Contact</b>	Office Intermedia Design kontakt@intermediales-design.de	
<b>Web</b>	www.intermedia-design.de 	

\* 7th and 4th semesters include a practical semester



# IMPRINT

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## **PUBLISHER**

Trier University of Applied Sciences  
Main Campus | Schneidershof | 54293 Trier  
Germany

## **RESPONSIBLE ACCORDING TO THE GERMAN PRESS LAW**

Prof. Dr. Norbert Kuhn  
President of Trier University of Applied Sciences

## **DESIGN**

Public Relations Department  
of Trier University of Applied Sciences

## **PHOTOS**

Linda Blatzek  
Page 47/48: Julia Schygulla  
Page 47: Jewellery by Alexander Friedrich

## **PRINTING**

250 booklets

## **PRESS**

WIRmachenDRUCK GmbH  
Mühlbachstr. 7  
71522 Backnang  
Germany

Trier, March 2018



[WWW.HOCHSCHULE-TRIER.DE](http://WWW.HOCHSCHULE-TRIER.DE)