



**HOCHSCHULE
KONSTANZ**
UNIVERSITY OF
APPLIED SCIENCES



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www.htwg-konstanz.de

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Hochschule Konstanz (HTWG) is located in the southernmost part of the Federal Republic of Germany, in the state of Baden-Württemberg. The HTWG campus is situated along the bank of the Rhine River, close to the historic center of the city of Konstanz. It originated from the Higher Technical Training Institute for Mechanical, Electrical and Civil Engineering, which was founded in 1906 through a private initiative.

Today the University of Applied Sciences in Konstanz offers professionally oriented higher education at the Bachelors and Masters levels in 20 technical and professional fields including **Engineering, Architecture, Computer Science, Business Administration** and the highly competitive fields of **Applied Communication and Culture, Management and Technology, and Communications Design**. All Bachelor degree courses at HTWG require one practical semester in industry; this internship is carefully prepared and closely integrated into the curriculum.

In addition, **17 Master Degree programs** currently offer study opportunities at the post-graduate level. HTWG Konstanz also participates in a unique **Cooperative Doctoral Program**.

ACADEMICS

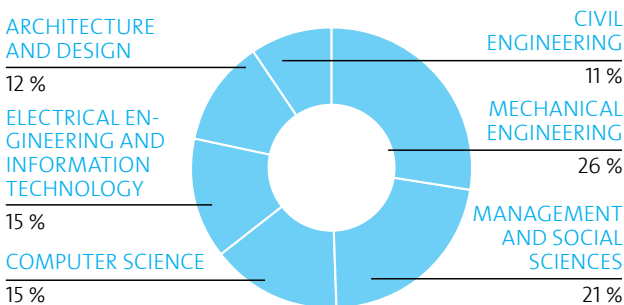
The **4,700 full-time students** at the HTWG are taught and supervised by 150 full-time professors. There are also 120 qualified instructors whose main employment is in industry or administration and who lecture in courses relating to their professional expertise. A staff of 250 support teaching and research in the laboratories and work in administration and other central services.

HTWG currently has formal partnerships and student and staff **exchange programs with 51 institutions of higher education in 26 countries**. Students from either side of an exchange can spend a semester or more at the partner institution, taking classes or completing an internship.

Class organization in Konstanz may take the form of **lectures, exercises, seminars or practical laboratories**. Successful participation in a certain number of these is obligatory and must be proven to receive course credits. Excursions, tutorials, guided development of case-studies and group study may also be offered within the course.

The class size at HTWG Konstanz is normally **30 to 40 students**. Most classes use a printed course packet, and rarely will a student have to buy a book. Most course materials are offered online and distributed via a virtual platform. This forum enables virtual discussion, contact to experts and the ability to comment on the course material.

Departments & Students (2013/14)





TECHNICAL AND EDUCATIONAL FACILITIES

- the library, the computer and a number of technology transfer centers
- the Institute for International Students
- the Official Testing Center for Building Materials and Geotechnology
- the training center of the German Welding Association
- the Konstanz Institute for Intercultural Management, Values and Communication (KleM)
- the Konstanz Institute for Corporate Governance (KICG)
- the Center of Business Compliance and Integrity (CBCI)
- the Center for Materials System Technology (ZWST)
- the Institute for Optical Systems (IOS)
- the Institute for System Dynamics (ISD)
- the Konstanz Institute for Business Process Control (KIPS)
- the Institute for Applied Thermo and Fluid Dynamics (IATFD)
- the Institute for Strategic Innovation and Technology Management (IST)
- the Institute for Natural Science and Mathematics (INM)
- the Institute for Professional Writing (IPS)
- the Konstanz Center for Energy Transition
- the HTWG's own Institutes for Applied Research and Continuing Education
- the Lake Constance Business School

REGIONAL SETTING

One of the many attractions of the university is its **international setting**. The city of Konstanz is located in south western Germany, in the state of Baden-Württemberg. With a population of 80,000, it is the largest city on the Bodensee and a **focal point in the „Euregio Bodensee“**, or the European region that includes the vibrant cultures of western Austria and eastern Switzerland. Konstanz is a renowned tourist hub, thanks to its attractive natural surroundings, extensive recreational opportunities and historical and cultural riches. The city also enjoys a long-standing reputation for its **high performance industry and innovative R&D facilities**. Many high-tech companies in the Konstanz region are valued partners of the HTWG, creating an environment for innovation that benefits regional industry and provides opportunities for student development.





INSTITUTIONAL PROFILE

HTWG is a University of Applied Sciences. In 1968 a decree of the Ministries of Education and Culture of Germany's federal states granted the universities of applied sciences **equal standing with universities and technical universities**. Like traditional German universities, the universities of applied sciences are supported by public funds and are under the jurisdiction of the federal state in which they are located. Both have institutional autonomy under German law, guaranteeing **freedom in teaching and research and academic self-administration**.

The German Federal Framework Act for Higher Education (Hochschulrahmengesetz) holds the universities of applied sciences responsible for applied research and development as well as academic, application-oriented instruction, and the transfer of this knowledge to businesses, industry and the public sector. HTWG exemplifies these guidelines as its mission. The **explicit linking of theory and practice** has strengthened the universities of applied sciences in their respective locations and made them an **ideal provider for the continued education of practicing professionals**.

LINKS WITH THE REAL WORLD

The professors at HTWG have **both scientific and practical credentials**. In addition to appropriate academic qualification – usually a doctorate – proof of outstanding achievement over a period of several years with an industrial or commercial firm is required for faculty appointment.

Professors **maintain their contacts with industry and business** through consultation, committee participation and R&D. These contacts are useful for placing students at firms in the practical semesters, and facilitating student participation in applied research projects carried out jointly with industry. Many final-year projects are the result of cooperation between HTWG Konstanz and a local company. The universities of applied sciences are **ideal think-tanks for enterprises** located in their region.

Of course, the benefits of technology flow in both directions. Regular faculty exposure to professional developments and challenges in the field can lead to crucial changes in the HTWG curriculum, or even the creation of new areas of specialization.

ACADEMIC EXCELLENCE

HTWG is renowned for its **top-quality instruction** in the fields of engineering, architecture, computer science, business administration and well developed curriculum in various highly competitive programs including Applied Communication and Culture, Management and Technology, and Communications Design. The HTWG also offers **innovative advanced programs** in Engineering and Management to enhance technical degrees. These interdisciplinary programs emphasize foreign-language skills, business and technology course work and real-world project management to meet the professional challenges of increased industrial globalization. All programs are **fully approved by the major German accreditation organisations** ZEvA, ASIIN and FIBAA.



DEGREE PROGRAMS

	ENGINEERING	ENGINEERING & BUSINESS	BUSINESS	DESIGN
BACHELOR	Applied Computer Science AIN	Business Information Systems WIN	Business Administration BWB	Architecture BAR
	Automotive Information Technology AIT	Civil Engineering and Management WIB	Business Law WRB	Communication Design BKD
	Civil Engineering BIB	Electrical Engineering and Management EIW	Asian Studies and Management: China BAC	
	Electrical Engineering and Information Technology EIB	Mechanical Engineering and Management WIM	Asian Studies and Management: South and Southeast Asia BAS	
	Mechanical Engineering: Development and Production MEP	Healthcare Computer Science GIB	Business German and Tourism Management WDT	
	Mechanical Engineering: Design and Development MKE			
	Process and Environmental Engineering VUB			
	Environmental Engineering and Resource Management URB			
MASTER	Automotive Systems Engineering ASE	Business Information Technology BIT	International Management Asia ASM	Architecture MAR
	Civil Engineering MBI	Mechanical Engineering and International Sales Management MMS	Management BWM	Communication Design MKD
	Electrical Systems Engineering EIM		Legal Management WRM	
	Computer Science MSI	Engineering and Management: – Civil Engineering	Compliance & Corporate Governance (Executive MBA)	
	Mechatronics MME	– Electrical Engineering – Mechanical Engineering	General Management (MBA)	
	Environmental and Process Engineering UVT		Human Capital Management (MBA)	
	Systems Engineering (career-complementing) SEM			



TECHNICAL FACILITIES

The **extensive technical and computing labs** at HTWG contribute to the university's high profile for both training and research applications. Sixty modern, well equipped laboratories and architecture studios provide extensive training space for the students. The Computing Center networks all the university buildings, with its server connecting HTWG with national and international networks.

The CAD/CAM Institute is also linked with the computing center, allowing students and professionals enrolled in continuing education courses to work with various CA technologies both in theory and in practice.

The library at HTWG has been recognized for its **state-of-the-art facilities and available materials**. Students, professors and staff have access to numerous materials, which include electronic books, magazines and media as well as current books, newspapers and journals. 4,000 online databases offering access to patents, statistics and articles are available to all users. The HTWG library has been recognized by the German Library Association (DBV) as the **best among its peers** since 2009.

The Welding Laboratory cooperates with the German Welding Association (DVS) in both professional training programs and testing. Its comprehensive array of welding and cutting machines, robots and highly efficient testing equipment (e.g., X-ray scanners) are available to industrial firms on a request-for-service basis.

INTERDISCIPLINARY DEPARTMENTS AND COURSES

The university's Institute of Natural Science and Mathematics teaches an array of courses in mathematics, physics, chemistry and computing. It does not offer its own degree but serves the business administration and engineering departments by providing **instruction in basic science and an introduction to the scientific method**, which is crucial for both research and students' future work. The department has its own audio-visual equipment and laboratory facilities.

In addition to offering degree courses in Business Administration and International Business Communication, the Department of Management and Social Sciences serves HTWG by providing **instruction in economics, organization and leadership, politics and sociology, law and modern languages** (English, French, Spanish, Italian, Portuguese, Chinese, Russian etc.). Many of these subjects are required for the Bachelors and Masters courses in other departments such as Civil Engineering, Electrical and Mechanical Engineering, Computer Science, Architecture and Design.

INTERNATIONAL LINKS AND ACTIVITIES

HTWG has a rich academic and research network with **numerous universities** in Western and Eastern Europe, in North and South America, in South Africa, Asia, Australia and New Zealand. Approximately 500 international students **from over 60 countries** are enrolled at HTWG, and each year approximately 400 Konstanz students decide to study a semester or more abroad.



RESEARCH AND TECHNOLOGY TRANSFER

Research at HTWG is oriented toward **solving the type of practical problems** encountered in the field. Research therefore represents a necessary supplement to the applied method of teaching and also guarantees that graduates are highly educated and well qualified for the job market. The institutional framework for middle- and long-term full-time research activity at HTWG is provided by the **Institute for Applied Research**.

Besides commissioned research for industry and the private sector, research projects are also funded by the European Union or from German national and state budgets.

There are presently an estimated **80 individual research projects** run by the professors at HTWG.

Many students are **involved in these research activities** and use their results in preparing their final thesis.

The **Cooperative School of Postgraduate Studies** strongly supports and highly qualifies the HTWG's PHD students.

CONTINUING EDUCATION

HTWG's continuing education program offers **250 compact academic courses** each year for engineers, executives and professionals that may be completed without interruption of full-time employment.

In addition, **longer part-time courses** are offered that count toward a Master's of Engineering and Master's of Business Administration, or certificates in Management, Technology, Computer Training, Project Management and Sales Training.



HOW TO STUDY AT HTWG

International students can complete coursework by either taking part in an **academic exchange** or applying for admission to a **full degree program** at the HTWG Konstanz. In either case, **strong German language skills are recommended** for both everyday life in Constance and our classes, most of which are conducted in German.

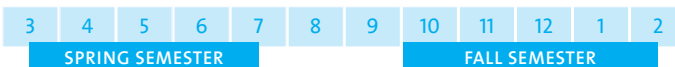
Exchange programs are supervised by the Akademisches Auslandsamt (International Office) and are usually 1-2 semesters in length.

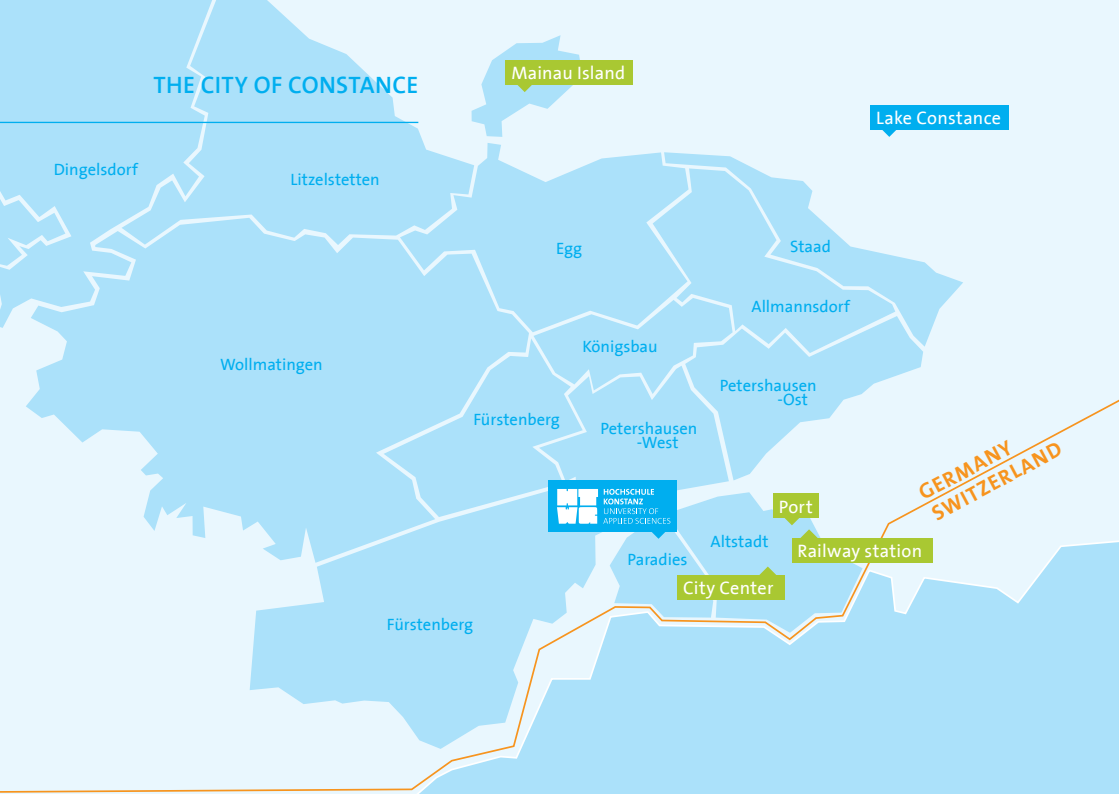
Students who wish to complete their entire course of study at the HTWG Konstanz will need to contact the Studienkolleg Konstanz (Center for International Students) before filing a direct application for admission in order to have their German language skills assessed and their school diplomas validated.

ACADEMIC CALENDAR

The academic calendar is divided into two semesters. A semester lasts six months; however, lectures are only held four to five months out of each semester. The last month is reserved for final exams or final projects, depending on course requirements. The lectures in Fall semester begin in October and end in January / February. The Spring semester starts in mid March and ends in June / July.

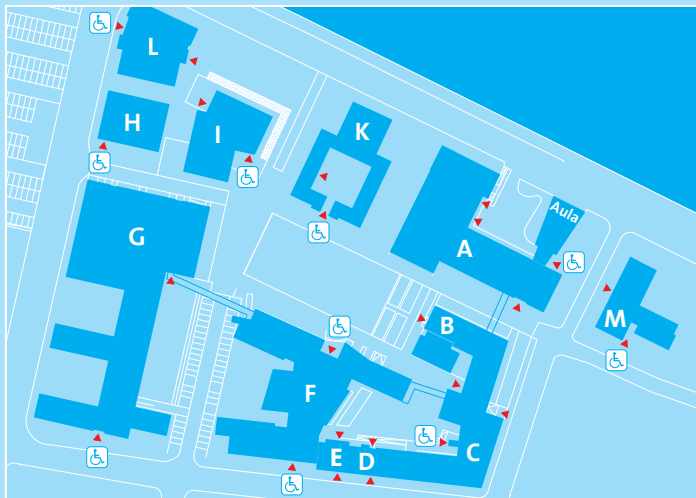
Most programs start in both the Spring and Fall semesters.





CAMPUSMAP HTWG

- A** Administration **B** International Office **G** Computer Center
- I** Mensa / Cafeteria / Beach Bar **K** Library



PHOTOGRAPHY: J. Flöter / A. Grützner, photo-spice.com,
A. Selbach / B. Troll, S. Romero, HTWG Konstanz

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HOCHSCHULE KONSTANZ
UNIVERSITY OF APPLIED SCIENCES

International Office

Brauneggerstr. 55 | D-78462 Konstanz

Tel.: +49 7531 206-378 | Fax: +49 7531 206-253

aaa@htwg-konstanz.de | www.htwg-konstanz.de/international-office

www.facebook.com/HTWgkonstanz