

University Info Pack

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I. The University

The Bauhaus-Universität Weimar can look back on an exciting and tradition-filled history. The Visual Art School founded by Grand Duke Carl Alexander in 1860, with such painters as Christian Rohlf and Ludwig Hoffmann, entered history already at the turn of the century as the Weimar School. The Belgian Henry van de Velde, summoned to Weimar in 1902, brought the school even greater fame by founding a handicraft seminar in 1907. The work of this school was influenced by the Jugendstil and by the ideas of the Artistic Renewal Movement, with its conjunction of craft and practice.

In 1919 Walter Gropius founded the Staatliche Bauhaus together with such famous artists as Paul Klee, Wassily Kandinsky, and Lyonel Feininger. It developed from an academic educational institution to the most important and influential school of art and architecture of the 20th century. Due to the influence of conservative circles, the Bauhaus moved to Dessau in 1925. Under the leadership of Otto Bartning, a regular architectural education was offered for the first time beginning in 1926. After the Second World War, Hermann Henselmann rebuilt the college, which was re-opened in 1946.

With the establishment of new faculties in civil engineering in 1954, the College of Architecture and Civil Engineering was born. After the political changes of 1989, the College re-oriented itself conceptually and was, as a consequence, renamed the Bauhaus-Universität Weimar in 1996. Already in 1993, in the tradition of Weimar's famous predecessor institutions, the Faculty of Design had been founded, followed in 1996 by the Faculty of Media.

II. General Practical Hints

In order to study at the Bauhaus-Universität Weimar, you will need the German matriculation standard (Hochschulreife) or its equivalent, and for courses of study in the creative and visual arts you must pass an entrance examination. In addition, there may be other special requirements, for example in the postgraduate master programme in European Urban Studies.

In the interest of helping each student applicant, the Bauhaus-Universität Weimar provides consultation for the various offerings of the university. These extend from individual conversations to yearly university information sessions and events taking place in schools, the dates of which are available upon request.

In addition, the Bauhaus-Universität Weimar offers a wide range of possibilities for working people who would like to refresh their knowledge. Even seniors can attend lectures at the university and put the motto of "Life-Long Learning" into practice. For senior studies the Abitur is no longer necessary.

For all questions relating to the application process or academic offerings of the Bauhaus-Universität Weimar please turn to the Office of Student and Academic Affairs, Academic Information and Student Advisory Service.

III. The Faculty of Civil Engineering

The Faculty of Civil Engineering is endowed with a long tradition and an extraordinary academic range. The broad spectrum becomes clear in view of the institutes and chairs as the Institutes for Structural Engineering; Structural Mechanics; Building Materials; Hydraulic and Mathematics / Physics as well as Chairs for Transportation and Traffic Engineering; Environmental Technology; Geotechniques; Construction Engineering; and Computer Science. Thus the Faculty of Civil Engineering is almost a small technical university in itself.

The main focus of the faculty's research activities is put on the special research topic 524 "Materials and Construction for the Revitalisation of Building Structures". Further areas of research include, among others, the questions of bearing and deformation behaviour of building structures, environmental technology, concrete materials, traffic engineering, and hydraulic engineering.

The introduction of the European Credit Transfer System (ECTS), the Master of Science degree for the supplementary course of study in Water and Environment, and Bachelor's and Master's degree courses in Civil Engineering promote the internationalisation of studies.

IV. The degree course MSc Water and Environment

The Master of Science degree course in Water and Environment is a postgraduate vocational correspondence course with options in Municipal Water Resources Management, Hydraulic and Hydraulic Engineering and Waste Management. It is offered in collaboration with the Leibniz Universität Hannover, whose courses are integrated into the overall course structure.

The postgraduate correspondence course Civil Engineering is designed not only for graduates of technical colleges and universities, but also for non-graduates working or intending to work as experts in the field of Water and Environment sector with administrative bodies, commercial enterprises, engineering offices, associations, institutes etc.

The training programme is organised in close cooperation with the DWA (German Association for Water, Wastewater and Waste) and the DVGW (German Technical and Scientific Association for Gas and Water).

Instruction is done on a correspondence basis. This enables participants to combine professional training with their job. Each course lasts one semester and requires about 8-15 hours of work per week.

Every fortnight one of the 8-10 units will be sent to the course participants, usually with assignments, which have to be sent back. Working on these assignments helps the participants to check their progress and prepare for the final five-day course attendance session. Here emphasis is put on the practical application of the knowledge acquired. The attendance period concludes with an examination.

For help with problems of organisation or guidance on course contents, participants may contact members of the staff at any time.

The degree course concludes with the composition of a M.Sc. thesis and an oral examination. On successful completion of the course, the academic degree „Master of Science“ is awarded by the Faculty of Civil Engineering.

The degree course is structured on a modular basis:

			Hours of Study (Contact Hours)	Credit Points (CP)
0	Preparatory modules	Introductory modules	8 / 16	12 / 24
1	Compulsory modules	Economics / Law / Management	8	16
2	Subject-related language modules	Subject-related languages: English / Spanish	6	10
3	Compulsory modules	From a choice of subject areas - Municipal Water Resources Management - Hydraulic Engineering - Wastewater Management	24	48
4	Optional modules	from all subject areas	8	16
5	Master 's Thesis		20	30
6	Oral examination			
	Complete degree course		66	120

The course entry requirement is a university or an advanced technical college degree in engineering or a natural science or a comparable qualification as well as a qualified work experience of at least one year. In accordance with the course requirements, applicants may be required by the Board of Examiners to enrol for a number of preparatory modules. Depending on this, the course will take up a total of 66 - 82 hours of study or comprise 120 - 144 credit points.

<i>Preparatory modules</i>	<i>Contact Hours / Credit Points</i>
Structural Mechanics	3 / 4,5
Solid Construction	1 / 1,5
Steel Structures	1 / 1,5
Surveying	1 / 1,5
Soil Mechanics	1 / 1,5
Geotechnical Engineering	1 / 1,5
Science of Construction Management	1 / 1,5
Building Physics	1 / 1,5
Structural Design	1 / 1,5
Computer Science for Civil Engineers	1 / 1,5
Water Management	2 / 3

Building Material Science	1 / 1,5
Traffic Engineering	1 / 1,5

The compulsory modules (both types), subject-related language modules and optional modules can be selected from the following:

<i>Compulsory modules</i>	<i>Contact Hours / Credit Points</i>
- WW 40 Environmental Law	8 / 16
- WW 50 Management of Water Resources	8 / 16
- WW 70 Project and Enterprise Management	8 / 16

<i>Subject-related language modules</i>	<i>Contact Hours / Credit Points</i>
- WW 80 English	6 / 10
- WW 81 Spanish	6 / 10

The areas of specialisation: Municipal Water Resources Management, Hydraulic and Hydraulic Engineering, Waste Management include a choice of special subjects and must take up a total of 24 hours of study, comprising 48 credit points.

<i>Compulsory modules (choice of subject area)</i>	<i>Contact Hours / Credit Points</i>
Municipal Water Resources Management	
- WW 51 Wastewater Drainage	8 / 16
- WW 52 Wastewater Treatment	8 / 16
- WW 53 Environmental Impact Assessment in Wastewater Plants	8 / 16
- WW 54 Industrial Wastewater	8 / 16
- WW 55 Introduction to Water Supply	8 / 16
- WW 56 Controlling in Wastewater Management	8 / 16
- WW 57 Water Supply Management	8 / 16
- WW 58 Water Supply Technology	8 / 16
- WW 59 Water Supply and Wastewater Engineering in Rural Areas	3 x 4 / 3 x 8
- WW 91 Rehabilitation of Infrastructural Networks	8 / 16
- WW 92 Innovative Sanitary Systems	8 / 16
Hydraulic and Hydraulic Engineering	
- WW 41 River Engineering	8 / 16
- WW 42 River Dams – Operation and Rehabilitation	8 / 16

- WW 43 Environmental Impact Assessment in Hydraulic Engineering 8 / 16
- WW 44 Development Planning of Waterbodies 8 / 16
- WW 45 Flood Management I - Basics 8 / 16
- WW 46 Continuity and Physical Habitat Modelling in Rivers 2 x 4 / 2 x 8
- WW 47 Flood Management II – Practical Experiences of Flood Protection 8 / 16

Waste Management

- WW 61 Internal Waste Management 8 / 16
- WW 62 Biotechnology in Waste Management 8 / 16
- WW 63 Fundamentals of Waste Management 8 / 16
- WW 64 Waste Disposal Technology and Rehabilitation of Inherited Waste 8 / 16

Depending on enrolment demand, the degree course lasts 2 - 5 years and can be started at the beginning of any summer or winter semester.