

**Informal admission information for the master program
Water Management and Environmental Engineering
 at the University of Natural Resources and Life Sciences (Boku),
 Vienna.**

Graduates of Bachelor degrees completed at other universities who wish to take the master degree in *Water Management and Environmental Engineering* must be able to demonstrate a fundamental knowledge of the central subjects taught as part of the Bachelor degree in *Environmental Engineering* at the University of Natural Resources and Life Sciences (Boku), Vienna.

Students are directly entitled to admission to the study program when they can provide a proof for **20 ECTS credits each** in following areas:

1 - Natural Sciences in the field of mathematics, statistics, physics, chemistry, geology, soil science and botany, hydrobiology)

2 - Basic knowledge in technical sciences in the field of geometry, mechanics, statics and strength of materials, surveying, structural design, geotechnics, geoinformation

3 - Basic knowledge in environmental engineering in the field of hydraulics, hydrology, river basin management, hydraulic engineering, settlement water management, hydrology, waste management, transport, rural water management, spatial planning and construction economics

If not more than 30 ECTS in total are missing, the applicant may get admission to start the master program with the obligation to do additional courses during the master program. The courses will be specified by the administration office of Boku University, based on suggestion by the program counselor.

Note:

Do a self-evaluation if you are eligible for admission based on the courses you passed during your bachelor/master studies!

The final decision of admission and possibly additional courses that have to be done can only be given after an official application for the master study.

Basic Knowledge for the Master degree Water Management and Environmental Engineering

1. Basics Applied Science 20 ECTS

Area	necessary ECTS	accredited ECTS	Equivalent courses
Mathematics	6		835106 Mathematik I, VU, 2 ECTS 835110 Mathematik II, VU, 4ECTS
Statistics	3		851113 Statistik für KTWV VO, 2 ECTS

			851113 Statistik Übungen UE, 1 ECTS
Physic	3		892100 Physik (KTWW;NHT), VO, 3 ECTS
Chemistry	3		770150 Allgemeine Chemie, VO, 3 ECTS
Geology	3		872100 Geologie, VO, 3 ECTS
Soil Science	3		911100 Bodenkunde, VX, 3 ECTS
Botany	3		831135 Allgemeine Botanik, VO, 3 ECTS
Hydrobiology	1		812105 Hydrobiologie I, VO 1 ECTS

2. Basics Technical Sciences 20 ECTS

Area	necessary ECTS	accredited ECTS	Equivalent courses
Geometry	4		835111 Technische Geometrie und Computergestütztes Zeichnen (CAD), VU, 4 ECTS
Mechanics	4		875101 Mechanik, VU, 4 ECTS
Statics and strength of materials	7		875102 Baustatik und Festigkeitslehre, VU, 7 ECTS
Surveying	4		857100 Vermessung, VU, 4 ECTS
Structural Design	8		875103 Konstruktion - Stabtragwerke, VU, 8 ECTS
Geotechnics	4		873101 Bodenmechanik und Grundbau, VU, 4 ECTS
Geoinformation	4		857104 Geoinformatik, VU, 4 ECTS

3. Basics Civil Engineering and Rural Water Management 20 ECTS

Area	necessary ECTS	accredited ECTS	Equivalent courses
Hydraulics	6		815100 Hydraulik und Hydromechanik, VU, 6 ECTS
Hydrology	3		816101 Hydrologie und Wasserwirtschaft I, VO, 3 ECTS
River Basin Management	2		816110 Allgemeiner Wasserbau und Flussgebietsmanagement, VO, 2 ECTS
Hydraulic engineering	3		816104 Konstruktiver Wasserbau, PJ, 3 ECTS
Settlement water management	7		811108 Siedlungswasserwirtschaft und Gewässerschutz, VU, 7 ECTS
Water Science	3		816100 Gewässerkunde und Hydrometrie, VU, 3 ECTS
Waste Management	2		813100 Abfallwirtschaft und -entsorgung, VU, 2 ECTS

Transport	4		856102 Verkehrsplanung und Mobilität VO, 4 ECTS
Rural water Management	5		815102 Landeskulturelle Wasserwirtschaft und Ressourcenschutz , VU, 5 ECTS
Spatial Planning	2		855101 Allgemeine Raumplanung und Raumordnung, VO,2 ECTS
Construction Economics	2		875105 Baubetriebslehre, VO, 2 ECTS Bauwirtschaft und Projektmanagement, VO 2 ECTS