

Bauingenieurwesen – Civil Engineering



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Competence Statement for the Application | Department of Civil and Environmental Engineering

For queries write to: master@bauing.tu-darmstadt.de.
Be sure to include your **name** and **application number**.

Name, first name:

Previous Degree Program(s):

Duration of study (years):

Scope of Study (Credits):

For your application for the M.Sc. Bauingenieurwesen - Civil Engineering you have to prove certain competences of the TU Darmstadt study program B.Sc. Civil Engineering and Geodesy. The corresponding modules are listed in **Table I** (Engineering/Compulsory subjects (B.Sc.)).

- Please check if you have successfully completed modules in your former degree program(s) that cover the contents of the B.Sc. Civil Engineering and Geodesy modules and enter these modules in the right column of the table.
- The module manual of the program B.Sc. Civil Engineering and Geodesy can be found at https://www.bauing.tu-darmstadt.de/media/bauing/resposives_design/studieren/download_dokumente/neu_wise_21_22/bachelor_bau_und_geo_1/TUCaN_MHB_B.Sc. BIG 2021_2021-01-18_an_Dez._II.pdf
- If you submit your Transcript of Records and the Module Manual in different languages, please indicate in the table the titles of the modules in both languages (applies only to languages with Latin characters).

Table I: Engineering/Compulsory subjects B.Sc. Bauingenieurwesen und Geodäsie

Modules of TU Darmstadt		Module(s) of former university
B.Sc. Bauingenieurwesen und Geodäsie		
Number	Title	Title and number of module(s), CP
04-00-0104/f	Mathematik I (Bau)	
04-00-0105/f	Mathematik II (Bau)	
04-00-0106/f	Mathematik III (Bau)	
13-E0-M001	Technische Mechanik I	
13-E0-M002	Technische Mechanik II (BI)	

Table I - Continuation		
Modules of TU Darmstadt		Module(s) of former university
B.Sc. Bauingenieurwesen und Geodäsie		
13-E0-M003	Technische Mechanik III	
05-95-1001	Physik	
13-F0-M009	Grundlagen der Ingenieurinformatik	
13-B1-M049	Messtechnik – Datenerfassung und Geoinformationssysteme (BIG)	
13-02-M001/8	Werkstoffe im Bauwesen (BI)	

Table II lists the research subjects of the M.Sc. Civil Engineering - Civil Engineering.

- Please enter in the right column successfully completed modules of your former degree program(s) in which content (at basic level) from these subjects was taught.

Table II: Research Subjects of the M.Sc. Bauingenieurwesen - Civil Engineering

Research Subject	Subject-related basic modules	Subject-related basic modules of previous university, title and number of module(s), CP
M.Sc. Bauingenieurwesen-Civil Engineering	B.Sc. Bauingenieurwesen und Geodäsie	
Construction, Maintenance and Rehabilitation of Transport Facilities	Verkehr I; Verkehr II	
Construction Technologies and Management	Baubetrieb I; Baubetrieb II	
Building Construction and Building Physics	Baukonstruktion und Bauphysik; Bauphysik	
Construction Mechanics	Baustatik II; Werkstoffmechanik	
Geotechnics	Geotechnik I; Geotechnik II	
Water Management	Grundlagen der Hydrologie; Grundlagen der Rohr- und Gerinnehydraulik; Ingenieurhydrologie I	
Glass Structures & Facade Technology	Baustatik I; Grundlagen der Fassadentechnik	
Real Estate Valuation	Bodenordnung und Bodenwirtschaft I; Planungs-, Bau-, Boden- und Umweltrecht	
Solid Construction	Stahlbetonbau I; Stahlbetonbau II	
Numerical Methods and Informatics in Civil Engineering	Grundlagen der Ingenieurinformatik; Geometrische Modellierung und Visualisierung II	

Table II - Continuation

Research Subject	Subject-related basic modules	Subject-related basic modules of previous university, title and number of module(s), CP
M.Sc. Bauingenieurwesen-Civil Engineering	B.Sc. Bauingenieurwesen und Geodäsie	
Planning, Design and Operation of Transport Facilities	Verkehr I; Verkehr II	
Sanitary Engineering	Siedlungswasserwirtschaft I; Siedlungswasserwirtschaft II	
Steel Construction	Stahlbau I; Stahlbau II	
Structural Analysis	Baustatik I; Baustatik II	
Structural (Health) Monitoring and -dynamics	Werkstoffe im Bauwesen (Teil Werkstoffmechanik); Baustatik I	
Environmental, Spatial and Infrastructure Planning	Grundlagen der Räumlichen Planung; Planungs-, Bau-, Boden- und Umweltrecht	
Hydraulic Engineering	Grundlagen der Hydrologie; Grundlagen der Rohr- und Gerinnehydraulik; Wasserbau I	
Materials Technology and Restoration	Werkstoffe im Bauwesen (BI) (Teil Baustoffe); Baukonstruktion und Bauphysik (Teil Grundlagen Bauphysik)	

IMPORTANT. Please send the **complete** module manual of your previous study program(s) as **pdf file** to: master@bauing.tu-darmstadt.de. In addition, please enter the **link to the module manual** here:

Your application cannot be processed without a module manual/module descriptions. Please **do not submit module manuals in paper copies**. For queries regarding this, write to: master@bauing.tu-darmstadt.de.

Table III: Language competencies

For the study of the M.Sc. Civil Engineering Program you need language skills in English and German. Please enter in Table III which language level you have in each case and whether and which language certificate you possess.

Language	Level	Certificate? Designation
English		
German		