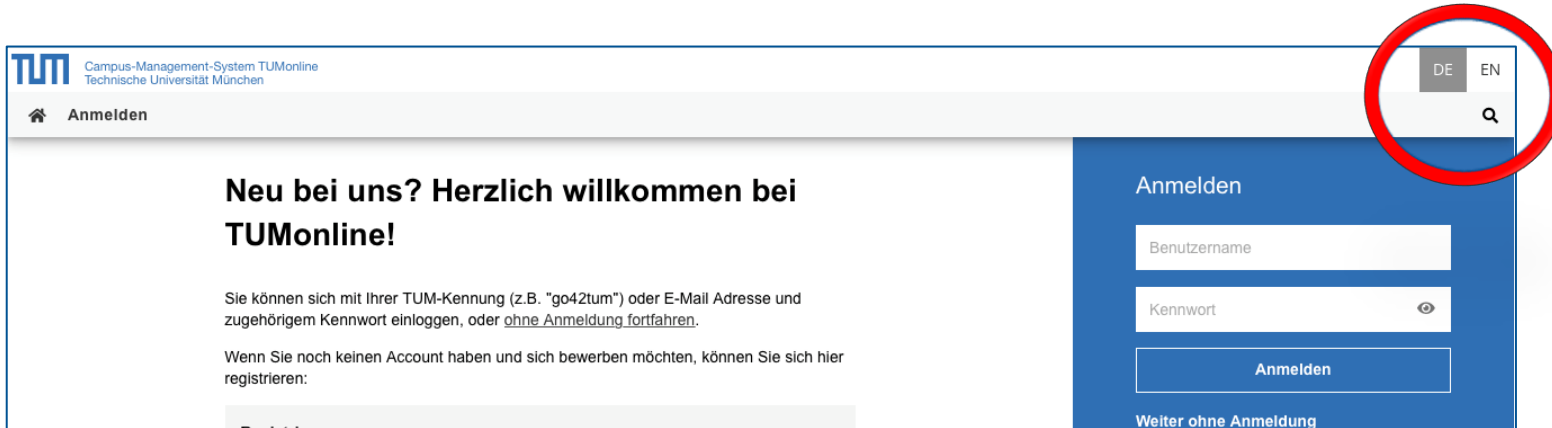
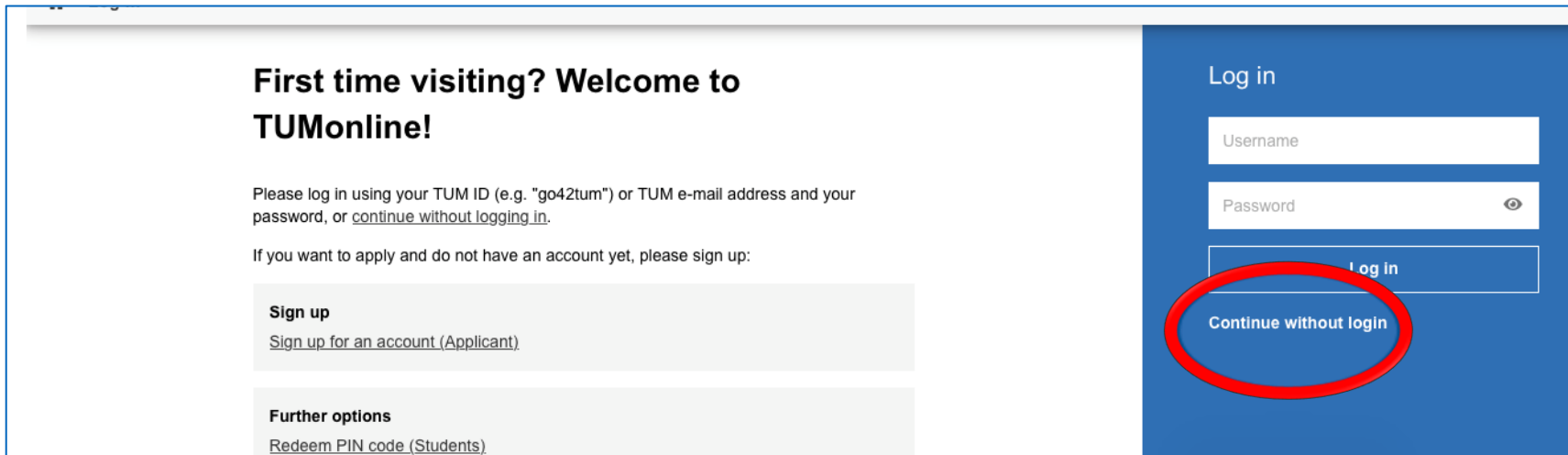


How to find courses/modules

You can search for courses/modules at TUMonline: <http://campus.tum.de>



You can change the language here



You don't need to log-in!
Select „Continue without login“

a) Find courses in the app „Degree program“

Select the app „Degree Programs“:

The screenshot shows the TUMonline interface. On the left, a menu titled 'Alle Applikationen' contains several options: 'Degree Programs' (highlighted with a red circle), 'Module Catalog', 'Courses', 'Exams', and 'People & Responsibilities'. On the right, the 'Degree Programmes / Technische Universität München' page is displayed for the academic year 2023/24. A list of degree programs is shown, with '16 Master of Science' and '17 Bachelor of Science' highlighted by a red box.

Alle Applikationen ▾

Filtern nach Applikationstitel...

Degree Programs

Module Catalog

Courses

Exams

People & Responsibilities

TUM Campus-Management-System TUMonline
Technische Universität München

Home Degree Programmes / Technische Universität München
2023/24

Academic year (2023/24) ▾

Degree 📄	ID 📄	Curriculum 📄
▶ 04 TopMath Promotion		
▶ 05 Partial doctorate		
▶ 06 Doctorate		
▶ 07 Doctor of Philosophy (Ph.D.)		
▶ 08 State examination / 1st state qualifying exam		
▶ 14 Bachelor of Education		
▶ 16 Master of Science		
▶ 17 Bachelor of Science		
▶ 18 Master of Business Administration		
▶ 19 Bachelor of Education (vocational education)		
▶ 20 Master of Science with Honours		

Select “16 Master of Science” or “17 Bachelor of Science”:

Select the relevant degree program(s) of the subject areas Civil and Environmental Engineering / Geo Engineering:

Bachelor

- Civil Engineering
- Environmental Engineering
- Geosciences

17 Bachelor of Science	105	Biochemistry (kA/20231)
17 Bachelor of Science	993	Bioeconomics (kA/20211)
17 Bachelor of Science	116	Biogenic Materials (kA/20211)
17 Bachelor of Science	042	Bioinformatics (kA/20211_sb bis 30.09.2050)
17 Bachelor of Science	317	Bodenordnung und Landentwicklung (kA/20181)
17 Bachelor of Science	800	Brewing and Beverage Technology (kA/20221)
17 Bachelor of Science	111	Chemical Biotechnology (kA/20231)
17 Bachelor of Science	415	Chemical Engineering (kA/20191)
17 Bachelor of Science	310	Civil Engineering (kA/20191)
17 Bachelor of Science	500	Electrical Engineering and Information Technology (kA/20231)
17 Bachelor of Science	411	Engineering Science (kA/20191)
17 Bachelor of Science	457	Environmental Engineering (kA/20191)
17 Bachelor of Science	160	Food Chemistry (kA/20221)
17 Bachelor of Science	753	Forestry Science and Resource Management (kA/20231)
17 Bachelor of Science	332	Geodesy and Geoinformation (kA/20191)
17 Bachelor of Science	139	Geosciences (kA/0_sb bis 30.09.2051)

From Bachelor's programs, please select **more than 50%** of your modules from „required modules“ and „elective modules“

Most module IDs from subject areas Civil and Environmental Engineering / Geo Engineering (CEE/GE) start with „BV“ or „BGU“

+	🏠	Fundamentals and Orientation Examinations
+	🏠	Bachelor Degree
+	📄	Required Modules 1. - 4- Semester 🕒 📅
+	📄	Elective Modules 🕒 📅
+	📄	Bachelor's Thesis 🕒 📅
+	📄	Interdisciplinary Qualification 🕒 📅

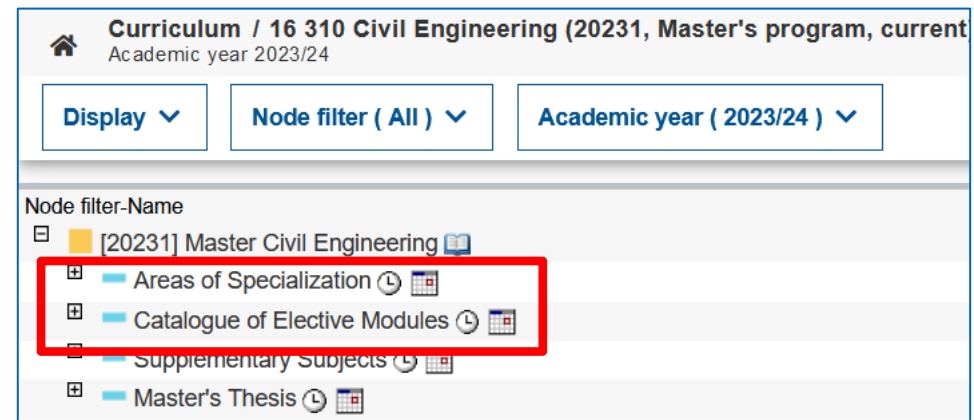
Select the relevant degree program(s) of the subject areas Civil and Environmental Engineering / Geo Engineering:

Master

- Civil Engineering
- Computational Mechanics
- Engineering Geology and Hydrogeology
- Environmental Engineering
- Information Technologies for the Built Environment
- Resource-efficient and Sustainable Building
- Transportation Systems

From Master's programs, please select **more than 50%** of your modules from the **main subject catalogue** (e. g. „fields of studies“ and „cross-cutting methods“ in Environmental Engineering or „area of specialization“ and „catalogue of elective modules“ in Civil Engineering)

Most module IDs from subject areas Civil and Environmental Engineering / Geo Engineering (CEE/GE) start with „BV“ or „BGU“



Curriculum / 16 310 Civil Engineering (20231, Master's program, current Academic year 2023/24)

Display ▾ Node filter (All) ▾ Academic year (2023/24) ▾

Node filter-Name

- ☐ [20231] Master Civil Engineering 📅
- ☐ Areas of Specialization 🕒 📅
- ☐ Catalogue of Elective Modules 🕒 📅
- ☐ Supplementary Subjects 🕒 📅
- ☐ Master's Thesis 🕒 📅

By clicking on the book symbol behind the module name, you can open the module description

Node filter-Name

- [20221] Environmental Engineering
 - Module List
 - Field of Study 1: Urban Water Engineering
 - Required Modules
 - [BGU38014] Water and Wastewater Treatment Engineering
 - [BGU38024] Advanced Water Treatment and Anaerobic Processes
 - Elective Modules
 - [BGU900012] Partner University - Elective Module
 - [BGU900014] Partner University - Elective Module
 - [CH3121] Analytical and Organic Environmental Chemistry
 - [BGU38037] Aquatic Microbiology
 - [BGU38011] Wastewater Conveyance Systems and Stormwater Management
 - [MW1969] Desalination
 - [BGU38036] Fundamentals of Hydrochemistry
 - [BV180006] Hydrochemistry
 - [BV180051] Hydrochemistry Lab
 - [BGU38021] Industrial Wastewater Treatment and Reuse
 - [BV380004] Microbiology of Groundwater Ecosystems
 - [BV180004] Modelling of Water Quality in Aquatic Systems
 - [BGU38034] Design and Operation of Conventional and Natural Water and Wastewater Treatment Systems
 - [BGU38028] Water Resource Recovery Process Simulation and Design
 - [BGU38035] Advanced Water Treatment - Unit Operations Laboratory
 - Field of Study 2: Water Resources Management



The module description includes further information about the module, e.g. course(s) of the module, content description, ECTS, language of instruction and the semester (winter or summer semester).

Module description

Description

[Go To Module Details](#)

Description

General data (module handbook)

Module Level	Master
Abbreviation	-
Subtitle	-
Duration	one semester
Occurrence	winter semester
Language	English
Related Programs	-

Work load

Total Hours	180
Contact Hours	60
Self-study Hours	120

Study and examination performance

Description of Achievement and Assessment Methods

The examination of the module is a written exam of 120 min. Through theoretical questions students prove that they understand the stages for the elimination of wastewater constituents, the supply and wastewater management systems as well as the feasibility of wastewater treatment methods, especially of wastewater. Through calculation and design tasks, which treatment task with given input parameters, the students analyze resource management in the field of wastewater performance of related systems, as well as location factors, technology systems and can critically evaluate various wastewater treatment techniques, taking into account unsteady conditions. They also show that they are able to analyze problems in a limited time and apply the necessary procedure of public health, as well as to develop process optimization

Then select: „Go to module details“ and select „Print view“

Overview

Courses and Exams

Description

Position in curriculum

[Print view](#)

Term: 2023W

Overview

Name	Water and Wastewater Treatment Engineering
Module ID	BGU38014
ECTS credits	6 <small>Credits may vary according to SPO version</small>
Version	-
Valid	from Winter semester 2013/14
Responsible for Module	-
Organisation	Chair of Urban Water Systems Engineering (Prof. Drewes)
Note	-

Note: You can see in the module description which course(s) belong to the module: click on „Courses and exams“ → „Courses“ / „Offer node“. You need to attend complete modules and not single courses.







Alternatively, by clicking on the book symbol behind the name of the degree program, you can open the complete module catalog of the program

The screenshot shows the TUMonline interface for the curriculum of the 16 459 Environmental Engineering (20221, Master's program, current) for the academic year 2023/24. The page includes navigation buttons for 'Display', 'Node filter (All)', and 'Academic year (2023/24)'. A tree view shows the program structure with a book icon next to the main program name. A dropdown menu is open, showing options to download the module handbook in German or English. The German option is selected.

Curriculum / 16 459 Environmental Engineering (20221, Master's program, current)
Academic year 2023/24

Display ▾ Node filter (All) ▾ Academic year (2023/24) ▾



Node filter Name

- [20221] Environmental Engineering 
- Module List 
- DTU - TUM 1:1 program  
- Master's Thesis  

TUM Campus-Management-System TUMonline
Technische Universität München

Download module handbook / Technische Universität München

Cancel/Close

-  MSc-UI_Modulhandbuch_20221021.pdf
Deutsch
-  MSc-UI_Module-Catalog_20221021.pdf
Englisch

If you want to check which modules former exchange students chose, you don't select a specific Bachelor's or Master's Program but scroll down to „98 Exchange program (not subject to fees)“ → „Exchange Program Civil Engineering and Environmental Engineering“ → „Modules of The TUM Department of Civil, Geo and Environmental Engineering“:

Degree Programmes / Technische Universität München
2023/24

Academic year (2023/24) ▾

- ▶ 40 Vocational Education: complementary teaching subject (Certificate)
- ▶ 41 Education: complementary teaching subject (Certificate)
- ▶ 42 Master of Education (vocational education integrated)
- ▶ 43 State examination / teacher training at middle schools / extended
- ▶ 44 Master of Laws
- ▶ 52 Certificate as freelance PE teacher
- ▶ 53 Master Brewer Diploma
- ▶ 60 Bachelor of Engineering in Chemical Engineering
- ▶ 61 Bachelor of Engineering in Electronics and Data Engineering
- ▶ 66 TUM Skills Excellence Program with certificate
- ▶ 67 Application for Continuation of Enrollment after Graduation
- ▶ 70 Preparatory college certificate
- ▶ 71 Preparatory college certificate (1 semester)
- ▶ 90 Integrationsprogramm Ukraine ohne Abschluss
- ▶ 91 Exchange program (Practical Project Students)
- ▶ 92 Graduate studies with certificate
- ▶ 93 Supplementary studies
- ▶ 94 Study orientation with certificate
- ▶ 95 No certificate
- ▶ 97 Supplementary / specialization studies with certificate
- ▶ **98 Exchange program (not subject to fees)**
- ▶ 99 Certificate of participation in the integration program

98 Exchange program (not subject to fees)	411	Exchange Program Munich School of Engineering (MSE) (kA/0)
98 Exchange program (not subject to fees)	310	Exchange Program Civil Engineering and Environmental Engineering (kA/0)
98 Exchange program (not subject to fees)	627	Exchange Program TUM School of Life Sciences (kA/20211)
98 Exchange program (not subject to fees)	657	Exchange program TUM School of Management (Heilbronn) (kA/20221; sb bis 30.09.2050)
98 Exchange program (not subject to fees)	256	Exchange program TUM School of Management (Munich) (kA/20231; sb bis 30.09.2050)
98 Exchange program (not subject to fees)	246	Exchange program TUM School of Management (Straubing) (kA/20221; sb bis 30.09.2050)

Node filter-Name

- [-] [0] Exchange Program Civil Engineering and Environmental Engineering
 - [+] Modules of the TUM Department of Civil, Geo and Environmental Engineering
 - [+] Modules of the TUM Department of Aerospace and Geodesy
 - [+] Modules of the TUM Department of Mathematics
 - [+] Modules of the TUM Department of Physics
 - [+] Modules of the TUM Department of Chemistry
 - [+] Modules of the TUM School of Management

Note:

- This list of modules is not complete
- You are not restricted to the modules included in this list
- The list of modules serves only as orientation

b) Find courses in the app module catalog

Alle Applikationen ▾

Filtern nach Applikationstitel...

Degree Programs

Module Catalog

Courses

Exams

Res

Please select an organisation

▾

- ▩ / Schools / Engineering and Design / Departments
TUS2DP2 Department of Architecture
- ▩ / Schools / Engineering and Design / Departments
TUS2DP3 Department of Civil and Environmental Engineering**
- ▩ / Schools / Engineering and Design / Departments
TUS2DP4 Department of Engineering Physics and Computation
- ▩ / Schools / Engineering and Design / Departments
TUS2DP5 Department of Mobility Systems Engineering
- ▩ / Schools / Engineering and Design / Departments
TUS2DP6 Department of Mechanical Engineering

Please select the majority of your modules (more than 50%) from the *Department of Civil and Environmental Engineering*.

In addition, you can find further modules of the subject areas Civil and Environmental Engineering / Geo Engineering in the course offer of other Departments of *School of Engineering and Design*.

Please select an organisation

- TUS2DP3 Department of Civil and Environmental Engineering
- TUS2DP4 Department of Engineering Physics and Computation
- TUS2DP5 Department of Mobility Systems Engineering**
- TUS2DP6 Department of Mechanical Engineering
- TUS2DP7 Department of Materials Engineering**

Choose modules which codes **start with „BV“ or „BGU“**

Module handbook / Department of Mobility Systems Engineering

Modules of the organisation Modules in SPOs

Filter

Name or ID

Semester (description) <= 23W

Remove filter Filter

Page 1 of 5

Name	ID	Version	Org. ID
Accessibility Planning	BGU52020		TUBV SVP
Active Mobility	ED150012		TUBVSVP
Advanced Driver Assistance Systems in Vehicles	MW2352		TUMWFTM
Airport and Harbour Design	BGU016TL		TUBVVVS
Analysis Methods	BV580010	V20131	TUBVVVS
Analysis Methods - Statistics and GIS	BV580010	V20111	TUBVVVS
Applied Statistics for Transportation Systems	BGU70009		TUBVVVS
Applied Statistics in Transport	BV580003		TUBVGTK
Applied traffic engineering and planning	BV560019		TUBVGTK
Applied Traffic Engineering and Transport Planning	BGU56050T2		TUBVGTK
Applied Transport Modeling	BGU68007		TUBVMOB
Applied Transport Modeling with MATSim	BGU68012		TUBVMOB
Applied Transport Models	BGU68008		TUBVMOB
Applied Transport Planning in Developing Countries	BGU68009		TUBVMOB

Attention: You cannot choose modules with the code ending „TL: „BGU[...]TL“!

If you wish, you can choose a minority of modules (less than 50%) from the module offer of other Departments of the TUM School of Engineering and Design and from other TUM Schools.

But:

- Modules from other Departments and Schools can take place at other TUM campuses (e. g. Garching, Weihenstephan, Heilbronn)
- Modules with code „WIHN...“take place at campus Heilbronn and are not available (it is stated in the module description behind the name of the organisation: TUM Campus Heilbronn)
- Modules with code ending „TL“ belong to the program Transport and Logistics which is offered at TUM Asia in Singapour and are not available
- If you select modules from *one degree program within one level* (bachelor or master level) you will have less scheduling conflicts
- It is your responsibility to check and verify the specific requirements for each module which are given in the module descriptions