Welcome and Orientation Meeting
for International Program Students
Summer Semester 2019

Nadin Klomke, M.A., International Affairs Delegate
Department of Civil, Geo and Environmental Engineering
Overview

- Department
- Semester dates
- Student card
- Computer rooms
- Documents
- Courses and Modules / Registration
- Exams / Registration
- Transcript of records
- Extension of your stay
- Services at TUM
- Events in Munich
- BGUmentoring Programme
- Contact
TUM. Department of Civil, Geo and Environmental Engineering
Philosophy: Shaping the Environment

Building

Infrastructure

Environment

Planet Earth
Covering the Aspects of Civil Engineering

- Construction
- Mobility and Transportation Systems
- Geodesy
- Modelling-Simulation-Processes
- Water-Soil-Air
### Focus Areas I

#### Construction
- Materials
- Resource Efficiency
- Recycling
- Energy-Efficiency
- Structures
- Renovation
- Monitoring and Testing
- Sustainability and LCA
- Fire Safety
- Fire Safety

#### Geodesy
- Urban Structures
- Property & Participation
- Transport & infrastructure
- Geolocation & Navigation
- Environmental Risk & Security
- Land Use & Management
- Earth System – Gravity
- Earth System – Geometry
- Satellite Sensors & Simulation
- Atmospheric Effects

#### Modelling - Simulation - Processes
- Numerical Methods
- Physical Models
- Probabilistic Modeling, Risk Assessment and Control
- Geometric, Semantic and Organizational Modeling
- Experimental Methods and Empirical Models
- Vibroacoustic analysis in the planning process of timber structures
Focus Areas II

**Mobility and Transportation Systems**

- Mobility behavior and the user perspective
- Integrated land-use and transport planning
- Traffic management and control
- Data processing, system architecture and quality monitoring
- Vehicle-Route interaction
- Rail and road superstructure
- Electric mobility
- Multi-layer system modeling
- Modeling and evaluation of environmental effects
- Governance and implementation processes

**Water – Soil – Air**

- Landslide monitoring, analysis and early warning
- Geothermal Energy Mineral resources, natural/building stone and aggregates
- Tunnelling, wear prediction and TBM performance
- Water and Wastewater Treatment
- Water Resources, Anthropogenic Pollutants and Integrated Regional Water Management
- Water and Energy
- Water and Sediment
- Water and Life
- Microfabrics and Quantification of rock structures
Civil, Geo and Environmental Engineering

38+ Professors
600+ Staff
4100+ Students

Photos: TUM/ Privat
Courses of Studies

Promotion Dr.-Ing
- IGSSE, International Graduate School of Science & Engineering
- THESIS
- TUM GS BGU, (Faculty Graduate Center)

Admission criteria
+ external applicants

Non-consecutive Master: program dependent admission criteria
+ external applicants

Consecutive Master: program dependent admission criteria
+ external applicants

Bachelor: Joint courses with other faculties
Bachelor: program dependent admission criteria

Joint courses
Study Programs taught in German
Study Programs taught in English
Not in charge of the faculty

Building Materials, Construction Chemicals and Repair
Transportation Systems
ESPACE, Earth Oriented Space Science & Technology
Cartography (Cooperation with Vienna & Dresden)
Land Management & Land Tenure
Transport & Logistics (Cooperation GIST Singapore)
COMC Computal Mechanics participating in BGOE
Energy-Efficient & Sustainable Building (Coop. with the Faculty of Architecture)

Structural Engineering (EDU)
Engineering Geology & Hydrogeology
Civil Engineering
Environmental Engineering
Geodesy & Geoinformation

Land Management (Export LMU)
Landscape Architecture & Planning (AR, TV, WZW, W)
Semester Dates

Summer term:

- Lecture period: 23rd April to 27th July, 2019
- Attention: Exams are from July to September!
- Public holidays: 1st May, 30th May, 10th June, 20th June, 15th August
- Pentacost break: 8th June to 11th June
- Re-Registration period for Winter Term: 15 August, 2019

Winter term:

- Lecture period: 14th October, 2019 to 7th February, 2020
- Christmas break: 24th December, 2019 to 6th January, 2020
- Exams: February to March 2020
Student Card

- Student ID (validation at machine in the entrance hall)
- Semester ticket for Public Transport MVV
- Library card (activate your student card at the information counter)
- Mensa card (charging first and paying at refectory)
- Copy card (paying your copies)
- Matrikelnummer for all administrative affairs
- But also: Getting reductions in museums, cinemas, etc.

More information:  
http://www.tum.de/studium/bewerbung/student-card/

Available: Arcisstr. 21, Room 0120 until 18th April
Computer rooms

- CIP-pools of Department of Civil, Geo and Environmental Engineering: 3209, 3238 and N0199a


- Opening hours:  
  - Mo - Fr 6 a.m. to 12 p.m. (except lecture times) 
  - Sa – So 10 a.m. to 10 p.m.

More information: http://www.cip.bgu.tum.de/
Language courses

• TUM language center („Sprachenzentrum“) offers German language courses on different levels
  http://www.sprachenzentrum.tum.de/en/homepage/
  – Courses during term, registration via TUMonline
  – Entry-level test required via e-learning platform
    https://www.moodle.tum.de/

• Other German language institutes in Munich (with costs)
  http://www.studentenwerk-muenchen.de/internationales/internationale-studierende-in-muenchen/in-der-vorbereitung/deutschkenntnisse/sprachkurse/

• Language Center offers 16 different languages
  https://www.sprachenzentrum.tum.de/en/languages/
Documents I

- Learning Agreements
  - Changes within the **first 2 months of semester**
  - Use Learning Agreement Section 2 „During the Mobility“
  - Only changes – no new complete Learning Agreement
  - **No approval of your changes at the end of the semester!**

---

<table>
<thead>
<tr>
<th>Component code (if any)</th>
<th>Component title at the Receiving Institution (as indicated in the course catalogue)</th>
<th>Deleted component [tick if applicable]</th>
<th>Added component [tick if applicable]</th>
<th>Reason for change¹</th>
<th>Number of ECTS credits (or equivalent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BG0406023</td>
<td>Energy Economics, Hydropower and Energy Storage</td>
<td>☑</td>
<td>☐</td>
<td>1. Previously selected educational component is not available at the Receiving Institution</td>
<td>6</td>
</tr>
<tr>
<td>BGU46036</td>
<td>Hydropower and Energy Storage &amp; Sustainable Water Resources Management</td>
<td>☐</td>
<td>☒</td>
<td>5. Substituting a deleted component</td>
<td>6</td>
</tr>
<tr>
<td>BGU54017</td>
<td>Environmental Remediation Strategies</td>
<td>☒</td>
<td>☐</td>
<td>4: no enough prerequisite</td>
<td>3</td>
</tr>
<tr>
<td>BV170009</td>
<td>International Water Rights and Politics</td>
<td>☐</td>
<td>☒</td>
<td>5. Substituting a deleted component</td>
<td>3</td>
</tr>
<tr>
<td>S20301</td>
<td>German as a Foreign Language</td>
<td>☐</td>
<td>☒</td>
<td>7: free elective</td>
<td>6</td>
</tr>
<tr>
<td>BV400016</td>
<td>Scientific Paper Writing</td>
<td>☐</td>
<td>☒</td>
<td>7: free elective</td>
<td>3</td>
</tr>
</tbody>
</table>
Documents II

- **Certificate of Arrival**
  - Required from several partner universities (mainly Erasmus partners)
  - Your home university has own document to provide
  - Is to be signed in the first few weeks of your study at TUM

- **Certificate of Departure**
  - Required from most partner universities (mainly Erasmus partners)
  - Your home university has own document to provide
  - Is to be signed in the end of your academic stay
  - End of stay is not date of your leaving but end of your academic purpose
    (date of last exam, date of submitting your master’s thesis, etc.)
Courses

The most common course types are:

• **Lecture „Vorlesung“:**
  - Registration recommended
  - Periodic (weekly) schedule
  - Exception: block-courses (Blockveranstaltungen)

• **Exercise „Übung“:**
  - Accompanying a lecture
  - Usually held by a teaching assistant
  - Registration recommended

• **Seminar „Seminar“:**
  - Limited number of participants, registration required
  - Registration usually via TUMonline or directly at the chair
  - Each student prepares a paper and presentation covering an individually assigned topic

You register for courses via „Courses“

Exams cover both lectures and corresponding exercise class
Modules

- one or several courses
- different types of courses (e.g. lectures, seminars, exercises, etc.)
- Total number of credits and grade only by attending complete module
- **No registration for exams is possible for parts of module**
- Only if part of the module is individual module – registration for exam is possible

**You register for exams via „Modules“**

Please check the module handbook via TUMonline

[https://campus.tum.de/tumonline/webnav.ini](https://campus.tum.de/tumonline/webnav.ini)
Where to find courses / search function

- You can find the schedules (=„Stundenplan“) on the website of the respective study programme: [http://www.bgu.tum.de/en/studies/degree-courses/](http://www.bgu.tum.de/en/studies/degree-courses/)
- You can search for courses at TUMonline: [http://campus.tum.de](http://campus.tum.de)

**Useful abbreviations:**
- Winter term: WS
- Summer term: SS
- Semester weekly hours: SWS (≈45 min/week)

→ usually 1 SWS=1.5 to 2 ECTS
Where to find courses / module handbook

b) by department

Ingenieurfakultät Bau Geo Umwelt

Module handbook

Modules of the organisation Modules in SPÖs

Filter

Name or ID

Semester (description) 1 17S

Remove filter

Name (A-Z)

Grade

Type

Version

Org. ID

A1

A2

A3

A4

A5

A6

Description

Renewable Energy Supply in Buildings

Acoustics incl. Acoustics Laboratory Practice

Actual topics in construction of transportation systems

Actual projects and built Water Constructions

Additives

Adjustment Theory 1

Adjustment Theory 2

Administrative Law

Advanced Aspects of Height Systems

Advanced Building Construction

Advanced Data and Information Management

Advanced Design Studio
Where to find courses / degree programmes

c) by degree programmes / course offer
→ 98
Exchange program → Civil Engineering)
Registration for courses

- Please login at TUMonline and use your personal calling card

  a) Register via „course Registration“
  b) Register directly from the Module handbook/ Course search
  c) Register via „Study Status“

- Courses marked with a green T means: „Registration is possible“
- Courses marked with a grey T means „Registration is not activated“, 
- Courses marked with a red T: registration is no longer possible,
- Courses marked with a yellow T: registration is not yet possible
- Click on the green „T“ and register

Attention: Registration for course
is not automatically registration for exam!
a) Registration by „Course registration“ (I)

Operation: „Course Registration“ → new window opens
a) Registration by „Course registration“ (II)

And clicking on „Register“
B) Registration by „Module handbook“ (I)

Go to „Search“ and choose „Module handbook“

Click on Module name → new window opens
B) Registration by „Module handbook“ (II)
B) Registration by „Module handbook“ (III)

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
<th>Organisation ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar in Rainfall-Runoff Modelling</td>
<td>Chair of Hydrology and River Basin Management (Prof. Disse)</td>
<td>TUBVHFM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comment</th>
<th>Weighting factor</th>
<th>Duration [Acc. to SPO version]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits 3</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Module ID</th>
<th>Abbreviated name of version</th>
<th>External allocation</th>
<th>Valid from</th>
<th>Valid until</th>
</tr>
</thead>
<tbody>
<tr>
<td>BQU54013T2</td>
<td></td>
<td></td>
<td>2014W</td>
<td></td>
</tr>
</tbody>
</table>

Allocations to SPO versions

Courses and exams

<table>
<thead>
<tr>
<th>Name</th>
<th>Identification</th>
<th>Rec. sem.</th>
<th>ECTS credits</th>
<th>Valid from</th>
<th>Valid until</th>
<th>Weighting factor</th>
<th>Exam mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar in Rainfall-Runoff Modelling - 1st element auf assessment</td>
<td>BQU54013P1</td>
<td>nsr</td>
<td>0</td>
<td>2014/2015</td>
<td></td>
<td>1</td>
<td>Written</td>
</tr>
<tr>
<td>Seminar in Rainfall-Runoff Modelling - 1st pass/fail credit requirement</td>
<td>BQU54013S1</td>
<td>nsr</td>
<td>0</td>
<td>2014/2015</td>
<td></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Offer node

| Seminar in Rainfall-Runoff Modelling | nsr | 1 |

<table>
<thead>
<tr>
<th>Course(s) in academic year 2017/18</th>
<th>Part</th>
<th>Lecturer (Assistant)</th>
<th>Place (1st session)</th>
<th>Time (1st session)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar in Rainfall-Runoff Modelling</td>
<td></td>
<td>Disse M [L], Duan Z</td>
<td>00507, Seminarraum-MST/LSR (0105,EG.507)</td>
<td>13:15 - 14:45</td>
</tr>
</tbody>
</table>
C) Registration by „Study Status“ (I)

- Choose your curriculum: **98 Exchange program → Civil Engineering**
C) Registration by „Study Status“ (II)

Notes:

- **+**: Overview of modules
- **Red flag**: Corresponding course/s
- **Green Flag**: Corresponding Exam
Useful links

Video tutorial (in English and German)
• How to register for courses in TUMonline: https://www.youtube.com/watch?v=SEgMSleuSaw

TUM Wiki (in English and German)
• How to register for courses in TUMonline: https://wiki.tum.de/display/docs/Course+registration
Exams I

- Exam period BGU: July to September
- (see TUMonline for detailed dates)
- Attention: Other departments have other exam periods (check webpages of departments!)
- The date of an exam is fixed: Earlier or extra exam dates for exchange students CANNOT be arranged.
Exams II

- Important: Register for all exams via TUMonline!

- Exam registration periods:
  - Department BGU: 1st – 31st July, 2019
  - Departments MW /EI / IN / WI / PH / MA: 27th May to 30th June
  - Department AR: 3rd June – 28th June 2019

- Grades are announced in your TUMonline account (registration!)

- Results can be late (end of semester, beginning of new semester)
Registration for exams

• Please login at TUMonline and use your personal calling card

• A) Register via „Exam Registration“
• B) Register via „Study Status“

• Exams marked with a green P means: „Registration is possible“
• Exams marked with a grey P means „Registration is not activated“, 
• Exams marked with a red P: registration is no longer possible, 
• Exams marked with a yellow P: registration is not yet possible
• Click on the green „P“ and register
Registration for exams via „exam registration“ I

- Login at TUMonline and use your personal calling card

→ Press „Exam Registration“
→ Operation: „Registration“
→ New window opens
Registration for exams via „exam registration“ II

- Search for exam: „Exam registration – Search“

→ Enter module number or name
→ Operation: „Register“ → „Register“
→ Select „Free Subject“
→ Operation: „Register“
Registration for exams via „study status“ I

• Please login at TUMonline and use your personal calling card
Registration for exams via „study status“ II

- Choose your curriculum: 98 Exchange program → Civil Engineering

**Note:**
- + : Overview of modules
- Green Flag: Corresponding Exam
- Red flag: Corresponding course/s
Useful links

Video tutorial (in English and German)
• How to register for exams in TUMonline: https://www.youtube.com/watch?v=R1NHCG72GYI

TUM Wiki (in English and German)
• How to register for exams via „exam registration“
  https://wiki.tum.de/pages/viewpage.action?pageId=20884903

• How to register for exams via „study status“:
  https://wiki.tum.de/pages/viewpage.action?pageId=20884893
Transcript of Records (Grade report)

- TUMonline account → „Transcripts“→ „grade report“
- All marks are listed on the transcript
  → condition: registration via TUMonline before!
- Continued access to TUMonline after your study at TUM
- Exam that is not passed (grade < 4.0) is not listed in your grade report (but in the examination report)
- Grade report is valid without signature and stamp
- If you need a signature, please contact me when all grades are validated (give „student ID number“ and address)

- Video tutorial: How to print a grade report (in German)
  https://www.youtube.com/watch?v=wmKvi8QZw94
Re-enrollment for winter term

- Only students who applied for 2 semesters!
- All other students need permission for prolongation (see next slide)
- Paying of student fee „Rückmeldegebühr“ in time to get re-enrolled
- Deadline: 15 August, 2019

Extension of your stay

Prerequisites:

• Permission of Departmental Coordinator is needed:
  – Submit short letter of motivation stating reasons for prolongation
  – Submit written approval from your home university (e.g. email)
  – Submit new learning agreement / study program

• Upon approval, we will notify the International Center
• If accepted, pay the student fee „Rückmeldegebühr“ to get re-enrolled
• Deadline for payment: 15 August


• Maximum duration of stay at TUM is 3 semesters
Services at TUM (a selection)

• TUMi - TUMinternational (semester programme)
  http://www.international.tum.de/en/coming-to-tum/tumi/

• English Writing Center
  http://www.sprachenzentrum.tum.de/de/sprachen/englisch/english-writing-center/

• TUM Career Service
  https://www.together.tum.de/en/career/

• Advise, Help and Cultural Activities
  – Studentenwerk München:
    http://www.studentenwerk-muenchen.de/en/

  – Christian student communities:

• Orchestras and Choirs:

• Sports programme at Zentraler Hochschulsport:
  http://www.zhs-muenchen.de/en/home/
International Day 2019

Be a part of it!

- 12 June 2019
- TUM main campus
- present your university
- introduce your country

www.international.tum.de/internationalday
Events in Munich (selection)

Spring Festival - Little Wies’n („Frühlingsfest“) at Theresienwiese from 26 April to 12 May, 2019
http://www.muenchen.de/veranstaltungen/event/fruehlingsfest.html

Spring Fair („Maidult“) at Mariahilfplatz from 27 April to 5 May, 2019
http://www.muenchen.de/veranstaltungen/event/527618.html

Long Music Night all around Munich on 4 May, 2019
http://www.muenchen.de/veranstaltungen/event/527914.html

Munich Film Festival from 27 June to 6 July, 2019
http://www.filmfest-muenchen.de/

Tollwood Summer Festival from 26 June to 21 July, 2019 in the Olympic Park
http://www.tollwood.de/
More information:

http://www.bgu.tum.de/en/stay-abroad/incoming/

Please check regularly the rubric "News"!

Enjoy your stay in Munich!
Departmental Contact

Nadin Klomke, M.A.
International Affairs Delegate

Arcisstr. 21, room 2717
building 7, second floor
Tel.: +49 (0)89/289-22427
Fax: +49 (0)89/289-25262
E-Mail: n.klomke@tum.de

Office hours:
Tuesday 10:00h to 12:00h
Thursday 09:30h to 12:00h
+ on appointment
Now…

…you have the opportunity to ask questions
… you might get your arrival documents signed
… talk to your fellow students and
… have a drink and snack!