

# Welcome Meeting

We invite you to a welcome meeting on

**Monday, 16 October 2023**

**8:15 a.m.**

**room D.10.08**

You will get useful information and answers to probable questions.

# Some useful hints

- Consider attending the classes as mandatory.
- Be on time and communicate responsibly and respectfully.
- Study continuously throughout the semester.
- Check StudiLöwe for Moodle links.
- Fill in the form [https://www.csis.uni-wuppertal.de/fileadmin/mathe/csis/Statement\\_CSIS.pdf](https://www.csis.uni-wuppertal.de/fileadmin/mathe/csis/Statement_CSIS.pdf) before the first exam.
- Read the examination regulations which are in English on the web page.
  - Note that you need 70 credits of completed modules as well as the successful passing of CSim1, CSim3 and at least one specialization module before you can start the master thesis.
- Do not remove the facilities of the computer labs.

# Modules 1<sup>st</sup> semester



- **Computer Simulation:**           **CSim1**
  - a) Block Course on Mathematical Foundations**
  - b) Lab course 1**
  - c) Introduction to Computer Simulation**
  
- **Computer Science:**           **CS1**
  - a) Modern Programming**
  - b) Virtualization 1 or**
  - c) Introduction to High Performance Computing (HPC)**
  
- **Numerical Methods:**           **NM1 or NM1a**  
**Numerical Analysis and Simulation I (NM1)**  
**or**  
**Advanced Numerics (NM1a)**

# Specializations



- Start in 2nd semester
- More info at the end of 1st semester and under appendix

# Exams 1<sup>st</sup> semester



## Module examinations:

- **CSim1** written, can be repeated twice at the utmost; registration for exam necessary; successful passing of the Block Course exam and 50 % exercises Introduction to Computer Simulation and upload of at least 10 solutions for LabCourse I, are required for admission to the exam

**Block Course exam date:** 20.10.2023 from 2:15 pm – 3:15 pm  
room: F.10.01- Hörsaal/lecture hall 04  
*Please come 10 minutes earlier and bring a pen and one page (single sided, A4) of hand-written notes.*

- **CS1** written or oral; form announced at the beginning
- **NM1** written or oral; form announced at the beginning; ungraded weekly exercises required for admission to the exam  
or
- **NM1a** assessment folder; content, deadline and form of individual assignments will be announced at the beginning

# CSiS Timetable 1st semester

-> individual timetable can be set up on Studilöwe



Time	Monday	Tuesday	Wednesday	Thursday	Friday	
8.15 - 9.45	<b>Introduction to Computer Simulation</b> CSiSMCSim1aV D.10.08 / Knechtli Start: 16.10.2023			<b>Lab Course I</b> CSiSMCSim1cV F.13.15 / Knechtli Start: 19.10.2023		
10.00 - 11.00			Exercises <b>Introduction to Computer Simulation (1h)</b> CSiSMCSim1aU F.13.15/ Urrea/Asmussen Start: 18.10.2023		Exercises <b>Advanced Numerics</b> MAT038001 G.10.06/HS 6 Kossaczka/ Muniz Start: 20.10.	
11.00 - 12.00				Exercises <b>NumAnalysis.a. Sim. ODE</b> MAT032001 O.07.01/HS 19 Schäfers Start: 20.10.		
12.15 - 13.45	<b>Modern Programming</b> MAT516000 O.06.01 – HS 15 Arndt Start: 16.10.2023	<b>Advanced Numerics</b> MAT038000 HS 07 Ehrhardt Start: 17.10.23	<b>NumAnalysis a. Simul. ODE</b> MAT032000 HS 01 Günther Start:17.10.23	Exercises + Introd. <b>Modern Programming</b> MAT516001 HS 27 or G.16.15 Arndt Start: 18.10.2023	Exercises <b>Lab Course I</b> CSiSMCSim1cV D.11.01 Höllwieser Start: 19.10.2023	<b>Introduction to High Performance Computing</b> CSiSMCS1cV F.13.17 Wong Start: 20.10.2023
14.00 - 15.00		<b>Virtualization 1</b> CSiSMCS1bV D.11.01 Harenberg / Sandhoff Start: 17.10.2023			<b>CSiS Help Room</b> CSiSMhelpU D.11.01 David Teran Start: 19.10.2023	
15.00 - 16.00						
16.00 - 17.00	<b>Advanced Numerics</b> MAT038000 HS 27 Ehrhardt Start: 16.10.	<b>NumAnalysis and Sim.: ODE</b> MAT032000 HS 01 Günther Start: 16.10.				
17.00 - 18.00						
18.00 - 21.00		<b>German in the evening A1, A2 B1 – online class@sl</b> start: 24.10. / 23.10.		<b>German in the evening A1, A2, B1 – online class@sl</b> start: 24.10. / 23.10.		

Please register for all a.m. courses on Moodle: <https://moodle.uni-wuppertal.de/>.

# Moodle registration for classes



**OBLIGATORY COURSES** from module reference book :

<https://www.csis.uni-wuppertal.de/de/program-curriculum/module-reference-book/csis-2020.html>

Obligatory Courses/ Module Name:	Course Name:	Module Component: <small>(module reference book)</small>	Moodle Link:
Computer Simulation 1	Introduction to Computer Simulation	CSISMCSim1aV	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=17196">https://moodle.uni-wuppertal.de/enrol/index.php?id=17196</a>
Computer Simulation 1	Introduction to Computer Simulation	CSISMCSim1aU	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=30132">https://moodle.uni-wuppertal.de/enrol/index.php?id=30132</a>
Computer Simulation 1	Block Course on Mathematical Foundations	CSISMCSim1bV	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=30169">https://moodle.uni-wuppertal.de/enrol/index.php?id=30169</a>
Computer Simulation 1	Lab Course I	CSim1-c	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=30170">https://moodle.uni-wuppertal.de/enrol/index.php?id=30170</a>
Computer Simulation 1	Help Room Course		<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=18258">https://moodle.uni-wuppertal.de/enrol/index.php?id=18258</a>
Computer Science 1	Modern Programming	CS1-a	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=29905">https://moodle.uni-wuppertal.de/enrol/index.php?id=29905</a>
(either) Computer Science 1	Virtualization I	CSISMCS1bV	<a href="https://moodle.uni-wuppertal.de/course/view.php?id=30168">https://moodle.uni-wuppertal.de/course/view.php?id=30168</a>
(or) Computer Science 1	Introduction to High Performance Computing (HPC)	CS1-c	<a href="https://moodle.uni-wuppertal.de/course/view.php?id=30171">https://moodle.uni-wuppertal.de/course/view.php?id=30171</a>
Numerical Methods 1	Numerical Analysis and Simulation I ODE or	NM1-a or	<a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=30">https://moodle.uni-wuppertal.de/enrol/index.php?id=30</a>
	Advanced Numerics	NM1a	or <a href="https://moodle.uni-wuppertal.de/enrol/index.php?id=30300">https://moodle.uni-wuppertal.de/enrol/index.php?id=30300</a>

# Computer accounts



Physics: Send your 7-digit student ID number to CSiS secretariat, Susanne vom Brocke: [vombrocke@uni-wuppertal.de](mailto:vombrocke@uni-wuppertal.de) .

Mathematics: Instructions will be given in the lecture of Modern Programming by Dr. Arndt.

MATLAB: To get a MATLAB license register with your ZIM account at: <https://de.mathworks.com/academia/tah-portal/bergische-universitat-wuppertal-30960999.html>

After ex-matriculation all accounts will be deleted.



# Help on programming skills



## **“Help room for programming” by CSiS study programme**

Moodle enrolment: <https://moodle.uni-wuppertal.de/enrol/index.php?id=18258>

Tutor: MSc student David Teran

## **Programming Workshop by School of Electrical, Information and Media Engineering**

Moodle enrolment: <https://fk6.uni-wuppertal.de/de/studium/im-studium/programmierwerkstatt/>

Tutor: Niclas Grabowski and André Pomp

# Registration at the Residents' Registration Office



If you don't speak German or do not have an accompanying person, contact the IST „*International Student Team*“ to ask for a German speaking accompany.

Contact details: <https://www.international-students-wuppertal.de/buddy-programm/>

# Administrative support by the University of Wuppertal

## International Office for Student Admission and Registration

Contact on all issues regarding enrolment, matriculation, ex-matriculation, semester fee, semester ticket, semester certificate.

room: H.11.11 + H. 11.10

phone: (0202) 439-3836 or 439 – 5139 on Wednesdays from 10:00 a.m. – 12:00 p.m.

e-mail: [intsek@uni-wuppertal.de](mailto:intsek@uni-wuppertal.de)

website: <https://www.uni-wuppertal.de/en/international/international-students/>

or

visit the **IntSek@Students Service Centre** at main entrance G.08.16.

opening hours: Tues. 9.00 a.m. - 12.00 p.m.

or

In addition, you can manage your address information, print your semester certificate online, navigate via "**StudiLöwe**"- the university's official course directory:

**StudiLöwe:** <https://www.studilöwe.uni-wuppertal.de>

# Study programme related counselling

## CSiS Coordinator

- **Prof. Dr. Francesco Knechtli**  
room: D.10.24  
phone: (0202) 439-2630  
e-mail: [knechtli@physik.uni-wuppertal.de](mailto:knechtli@physik.uni-wuppertal.de)

## CSiS Secretariat

- **Susanne vom Brocke**  
room: F.10.05  
phone: (0202) 439-2594  
e-mail: [vombrocke@uni-wuppertal.de](mailto:vombrocke@uni-wuppertal.de)  
website: <http://www.csis.uni-wuppertal.de/>

## Examination Office CSiS

- **Philipp Depiereux Examination Office**  
room: T.12.05  
phone: (0202) 439-5096  
e-mail: [depiereux@uni-wuppertal.de](mailto:depiereux@uni-wuppertal.de)

## Central Complaints Office / QSL

Contact for questions, problems regarding the quality of studies and teaching.

- **PhD student Tom Asmussen**  
room: G.11.37  
phone: (0202) 439 3439  
e-mail: [asmussen@uni-wuppertal.de](mailto:asmussen@uni-wuppertal.de)

## Student Council Representative

Contact in case of general student issues.

- **Student Council of Physics or Math, Informatics**  
room: G.11.43 and D.13.05  
phone: (0202) 439 3538 and -3355  
e-mail: [fachschaftphysik@uni-wuppertal.de](mailto:fachschaftphysik@uni-wuppertal.de) and [fsmathe@uni-wuppertal.de](mailto:fsmathe@uni-wuppertal.de)

# Save the Dates for Orientation at BUW



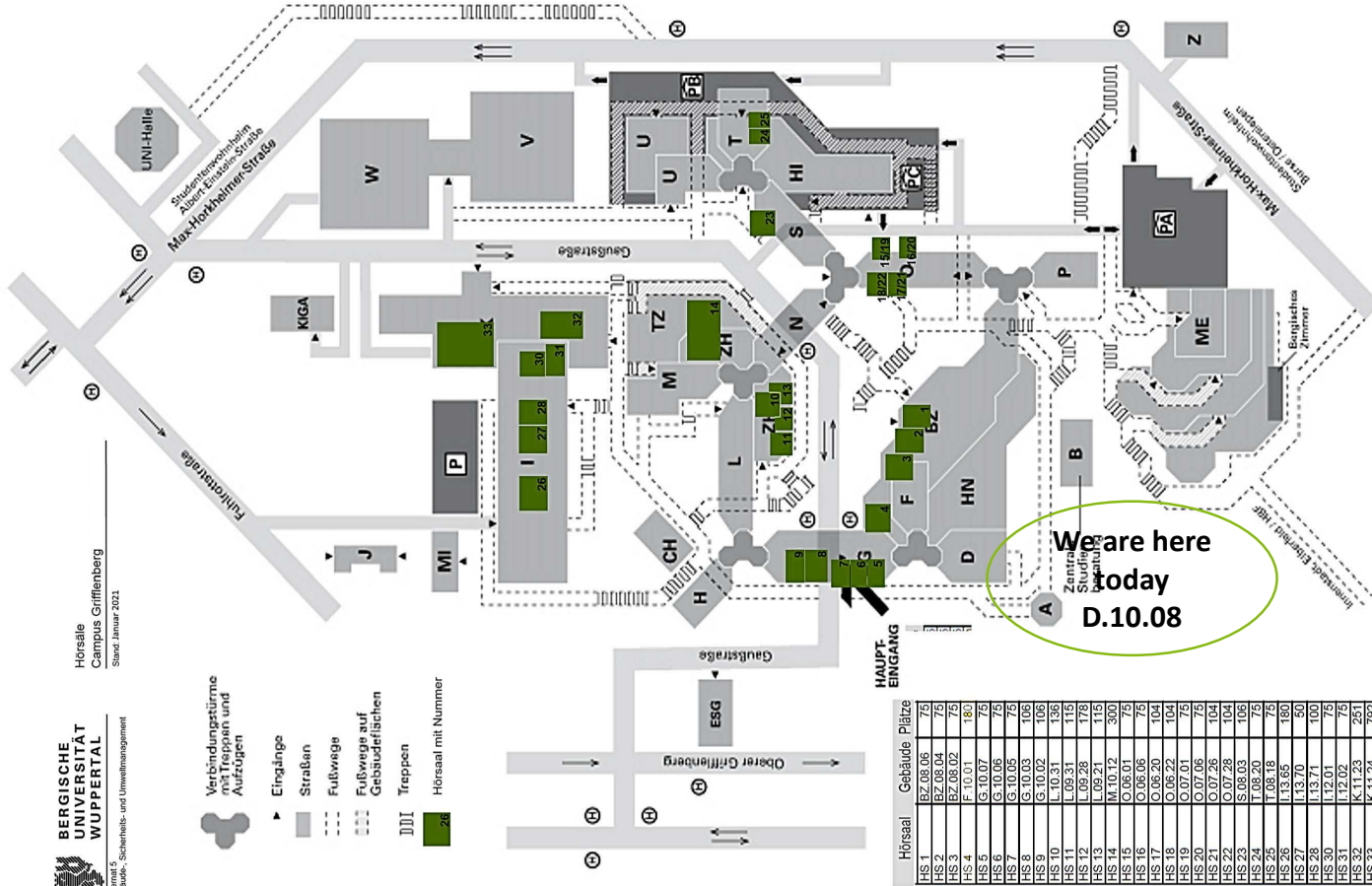
- **Welcome Event from the International Office:** **26.10.2023 at 9:30 a.m.**  
meeting point: room F.13.15 in the following of LabCourse I  
guide: Najib Sabbagh from Intern. Office
- **Campus Guided Tour:** **begin November** possible on request
- **[Excursion Programme](#) for International Students:** [next event on 27.10.2023](#) „Ribbon Weaving Museum & Living Lab NRW-Utopiastadt“
- **Weeklys international students [get-together](#):** every Thursday at 8:00 pm at the Uni Kneipe
- **[Get-together Day](#) at University of Wuppertal:** 27.11.2023 at 4:00 pm AStA office ME.04

# Helpful links



- International Office for Student Admission and Registration: <https://www.uni-wuppertal.de/de/internationales/internationale-studierende/>
- Students Services Center: <https://www.uni-wuppertal.de/en/ssc/>
- Enrolment procedure: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/>
- Residents registration office: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/residents-registration-office/-/foreign-citizens-office/>
- Certificate of enrolment: <https://www.uni-wuppertal.de/en/international/international-students/enrolment/certificate-of-enrolment/>
- Buddy Programme by International Student Team (IST): <https://www.international-students-wuppertal.de/wir-uber-uns/internationaler-stammtisch/>
- German classes: <https://www.uni-wuppertal.de/en/international/international-students/learn-and-improve-german/> or [https://buchung.sli.uni-wuppertal.de/angebote/aktueller\\_zeitraum/German\\_in\\_the\\_Evening.html](https://buchung.sli.uni-wuppertal.de/angebote/aktueller_zeitraum/German_in_the_Evening.html)
- Psychological Counselling: <https://www.zsb.uni-wuppertal.de/de/beratung/psychologische-beratung/>
- Moodle: <https://moodle.uni-wuppertal.de/login/index.php>
- StudiLöwe: <https://www.studilowe.uni-wuppertal.de/qisserver/pages/cs/sys/portal/hisinoneStartPage.faces>

# Campus map



Hörsäle  
Campus Griffenberg  
Stand Januar 2021

Direktor 5  
Gebäude-, Sicherheits- und Umweltmanagement

- Verbindungstürme mit Treppen und Aufzügen
- Straßen
- Fußwege
- Fußwege auf Gebäudeflächen
- Treppen
- Hörsaal mit Nummer

# Appendix: CSiS Curriculum



## Overview CSiS Curriculum based on Examination Regulations 2020

### Pflichtbereich / Compulsory Subjects

Term	Computer Simulation	Computer Science	Numerical Methods
<b>1</b> <b>(WiSe)</b>  <b>28 CP</b>	<b>Computer Simulation 1</b> <b>11 CP</b> Lab Course I                      150h Introduction to Computer Simulation    120h Block Course on Mathematical Foundations      60h	<b>Computer Science 1</b> <b>9 CP</b> Modern Programming                      180h Virtualization I                              90h or Introduction to HPC                              90h	<b>Numerical Methods 1</b> <b>8 CP</b> Numerical Analysis and Simulation I    240h or Advanced Numerics                              240h
<b>2</b> <b>(SoSe)</b>  <b>24 CP</b>	<b>Computer Simulation 2</b> <b>13 CP</b> Data Analysis                              150h Parallel Algorithms                              240h	<b>Computer Science 2</b> <b>3 / 7 CP</b> Tools    90h	<b>Numerical Methods 2a / 2b</b> <b>8 CP</b> Numerical Methods 2a: Numerical Analysis and Simulation II    240h or Numerical Methods 2b: Numerical Methods in Classical Field Theory and Quantum Mechanics    240h
<b>3</b> <b>(WiSe)</b>  <b>22 CP</b>	<b>Computer Simulation 3</b> <b>12 CP</b> Introduction to Computer Simulation II    120h Lab Course II                                      240h	<b>Computer Science 2 (contd.)</b> <b>4 / 7 CP</b> Image Processing and Data Visualization                              120h or Virtualization II                                      120h	<b>Numerical Methods 3</b> <b>6 CP</b> Numerical Linear Algebra                              180h

Table 1: Overview CSiS Curriculum: Obligatory Subjects



Thank you for  
your attendance!