

Welcome Meeting

We invite you to a welcome meeting on
Monday, October 20th 2025, 10:00
room D.10.08

You will get useful information
and answers to probable questions

I. Introduction

International Office of the University of Wuppertal

Welcome Services International

- **Ms Daria Isaeva**
Room: O.06.10
Phone.: 0202 439 2406
E-mail: Isaeva@uni-wuppertal.de
- **Mr Najib Sabbagh**
Room: B.06.06
Phone: 0202 439 5266
E-mail: Sabbagh@uni-wuppertal.de

Student Body of Physics

Contact in case of general student issues.

- **Mr Michel Krause**
Room: G.11.43
Phone: (0202) 439 3538
E-mail: fachschaftphysik@uni-wuppertal.de
Website: <https://www.physik-fachschaft.uni-wuppertal.de/de/>

II. Topics Relevant to the Degree Programme

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 “CSiS statement” <https://www.csis.uni-wuppertal.de/de/examinations/forms-for-students/> before the first exam and submit the form at the CSiS office.
- 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 CFM1 or at least one specialization module before you can start the master thesis.
- Do not remove the facilities of the computer labs.

Modules on the 1st 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 (NM):**
 - a) Numerical Analysis and Simulation I (NM1)
 - OR**
 - b) Numerics of Ordinary Differential Equations (NM1a)
 - OR**
 - c) Mathematical Machine Learning (MathML)

Specializations

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

Exams of the 1st Semester

Module examinations:

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

Block Course exam dates: 31.10.2025 + repetition 05.12.2025, 14:30 – 15:30, room: L.11.22
Please come 15 minutes earlier and bring a pen and one page (single sided, A4) of hand-written notes.

CSim1 final module e-exam dates: 25.02.2026 08:00 – 11:00
room: L.11.22/27
+ repetition 25.03.2026 08:00 – 11:00
room: T.09.20/23
*Please come 15 minutes earlier. Up to 2 pages of hand-written notes (double sided, A4).
The exam can only be repeated twice (maximum of three attempts)*
- **CS1** written or oral; form announced at the beginning
- **NM1** oral; 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
or
- **MathML** content, deadline and form of individual assignments will be announced at the beginning

CSiS Timetable, 1st semester

Lecture period: 20.10.2025 – 06.02.2026



TIME	MONDAY	TUESDAY		WEDNESDAY	THURSDAY		FRIDAY	
10:00-11:00	Introduction to Computer Simulation (Lecture, CSim1a) <i>10:00 – 12:00</i> D.10.08			Introduction to Computer Simulation (Exercises, CSim1a) <i>10:00 – 12:00</i> F.13.15	Numerical Analysis and Simulation 1 (Lecture, NM1) <i>10:00 – 12:00</i> BZ.08.06 (Hörsaal 01)	Numerics of Ordinary Differential Equations (Lecture, NM1a) <i>10:15 – 11:45</i> G.10.07 (Hörsaal 5)	Numerical Analysis and Simulation 1 (Exercises, NM1) <i>10:00 – 12:00</i> O.07.01 (Hörsaal 19)	Numerics of Ordinary Differential Equations (Exercises, NM1a) <i>10:15 – 11:45</i> I.12.02 (Hörsaal 31)
11:00-12:00	Prof. Dr. Francesco Knechtli			M.Sc. Tom Asmussen, M.Sc. Sarah Awwad	Prof. Dr. Michael Günther	Prof. Dr. Matthias Ehrhardt	Prof. Dr. Michael Günther, Kevin Schäfers	Prof. Dr. Matthias Ehrhardt
12:00-13:00	Modern Programming (Lecture, CS1a) <i>12:00 – 14:00</i> G.14.34	Numerical Analysis and Simulation 1 (Lecture, NM1) <i>12:00 – 14:00</i> G.10.07 (Hörsaal 05)	Numerics of Ordinary Differential Equations (Lecture, NM1a) <i>12:15 – 13:45</i> G.10.05 (Hörsaal 07)	Modern Programming (Exercises, CS1a) <i>12:00 – 14:00</i> I.14.75	Introduction to Computer Simulation (Lab Course, CSim1a) <i>12:00 – 14:00</i> D.10.08	Introduction to High Performance Computing (Lecture, CS1c) <i>12:00 – 14:00</i> D.10.08		
13:00-14:00	Dr. Holger Arndt	Prof. Dr. Michael Günther	Prof. Dr. Matthias Ehrhardt	Dr. Holger Arndt	Prof. Dr. Francesco Knechtli	Dr. Chik Him Wong		
14:00-15:00	Pause	Virtualization I (Lecture, CS1b) <i>14:00 – 16:00</i> D.11.01 (Compass-Labor)		Mathematical Machine Learning (Lecture, MathML) <i>14:00 – 16:00</i> G.10.05 (Hörsaal 07)	Introduction to Computer Simulation (Lab Course, CSim1a) <i>14:00 – 16:00</i> D.11.01 (Compass-Labor)			
15:00-16:00		Dr. Torsten Harenberg		Prof. Dr. Peter Zaspel	Prof. Dr. Francesco Knechtli			
16:00-17:00	Mathematical Machine Learning (Lecture, MathML) <i>16:00 – 18:00</i> G.10.05 (Hörsaal 07)	Pause			Mathematical Machine Learning (Exercises, MathML) <i>16:00 – 18:00</i> G.10.06 (Hörsaal 06)			
17:00-18:00	Prof. Dr. Peter Zaspel				Prof. Dr. Peter Zaspel			
18:00-21:00		"German in the Evening" Course, A1 Level (18:00-21:00)			"German in the Evening" Course, A1 Level (18:00-21:00)			

* Course of Numerics of Ordinary Differential Equations will split into two profiles on 20.01.2026

** Compulsory courses are written in black text (CSim1a and CS1a).

Elective obligatory courses are highlighted with red text (Computer Science: CS1b or CS1c) and blue text (Numerical Methods: NM1, NM1a or MathML).

Please register for all courses on Moodle: <https://moodle.uni-wuppertal.de/>
CEM students: contact Mr. Norman Haußmann by email: haussmann@uni-wuppertal.de

CSiS Welcome Meeting Winter Term 2025/26

Prof. Dr. Francesco Knechtli | CSiS Examination Board | 20.10.2025



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Moodle Registration for Classes



OBLIGATORY COURSES from module reference book:

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

Obligatory Courses/ Module Name:	Course Name:	Code in MHB	Module Component: (codes in StudiLöwe)	Moodle Link
Computer Simulation 1	Block Course on Mathematical Foundations	CSim1-b	CSISMCSim1bV	https://moodle.uni-wuppertal.de/enrol/instances.php?id=50326
Computer Simulation 1	Introduction to Computer Simulation: Lectures, Exercises, Lab Course I	CSim1-a, CSim1-c	CSISMCSim1aV and CSISMCSim1aU and CSISMCSim1cV	https://moodle.uni-wuppertal.de/enrol/index.php?id=50309
Computer Simulation 1	Help Room Course	—	CSISMhelpU	https://moodle.uni-wuppertal.de/user/index.php?id=50673
Computer Science 1	Modern Programming	CS1-a	MAT516000 and MAT516001 and MAT516002	https://moodle.uni-wuppertal.de/enrol/index.php?id=52631
Computer Science 1	Virtualization I or Introduction to High Performance Computing (HPC)	CS1-b or CS1-c	CSISMCS1bV or CSISMCS1c	https://moodle.uni-wuppertal.de/enrol/index.php?id=50325 or https://moodle.uni-wuppertal.de/course/view.php?id=50328
Numerical Methods 1	Numerical Analysis and Simulation I: ODEs or Advanced Numerics or Mathematical Machine Learning	NM1 or NM1a or MathML	MAT032000 and MAT032001 or NM1a or MathML	https://moodle.uni-wuppertal.de/enrol/index.php?id=52678 https://moodle.uni-wuppertal.de/course/view.php?id=52683 or https://moodle.uni-wuppertal.de/enrol/index.php?id=52682 or https://moodle.uni-wuppertal.de/enrol/index.php?id=52748

Computer accounts

Physics: Send your 7-digit student ID number to the CompassLab system administrator, Ralf Häusling: haeusling@uni-wuppertal.de.

Mathematics: Instructions will be given in the lecture of Modern Programming by Dr. Holger 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 as of 20.10.2025

Moodle enrolment: <https://moodle.uni-wuppertal.de/user/index.php?id=50673>

Tutor: Reza Khosravi, M.Sc. Student

reza.khosravi@uni-wuppertal.de

Contact Details



CSiS Coordinator

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

CSiS Secretary Office

- **Mr Dmytro Potikha, M.Sc.**
room: F.10.05
phone: (0202) 439-2594
e-mail: potikha@uni-wuppertal.de
csis@uni-wuppertal.de
website: <http://www.csis.uni-wuppertal.de/>

Appointments can be requested via email to potikha@uni-wuppertal.de.
Provide brief information about the reason for appointment request.

Examination Office CSiS

Transcript of records, Master thesis submission,
Master certificates:

- **Mr Philipp Depiereux**
room: T.12.05
phone: (0202) 439-5096
e-mail: depiereux@uni-wuppertal.de
website: <https://www.zpa.uni-wuppertal.de/de/studiengaenge/master/master-of-science-studiengaenge/msc-computer-simulation-in-science-po-2023/>

Quality of Studies and Teaching/ QSL Office

Contact for questions on the quality of studies
and teaching:

- **Mr Tom Asmussen, M.Sc.**
- **Ms Sara Awwad, M.Sc.**
room: G.11.37
phone: (0202) 439 3439
e-mail: asmussen@uni-wuppertal.de
website: <https://fk4.uni-wuppertal.de/de/studium/qualitaet-in-studium-und-lehre>

<https://www.csis.uni-wuppertal.de/en/studies-and-life/contact-persons/>

Contact Details

Student Admission and Registration: IntSek office

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

Open hours at main entrance building G.08.16.: **Tuesdays and Thursdays, 9:00 – 12:00**

Telephone enquiries and advice: (0202) 439-3836 or 439 – 5139

Wednesdays, 14:00 – 16:00

e-mail: intsek@uni-wuppertal.de

website: <https://www.uni-wuppertal.de/en/international/international-profile/actors/contact/student-admission-and-registration-for-international-students/>

“StudiLöwe” is the university’s official course directory.

There you can update your address information, download your semester certificate and your current transcript of records at any time: <https://www.studilöwe.uni-wuppertal.de>.

<https://www.csis.uni-wuppertal.de/en/studies-and-life/contact-persons/>

Save the Dates

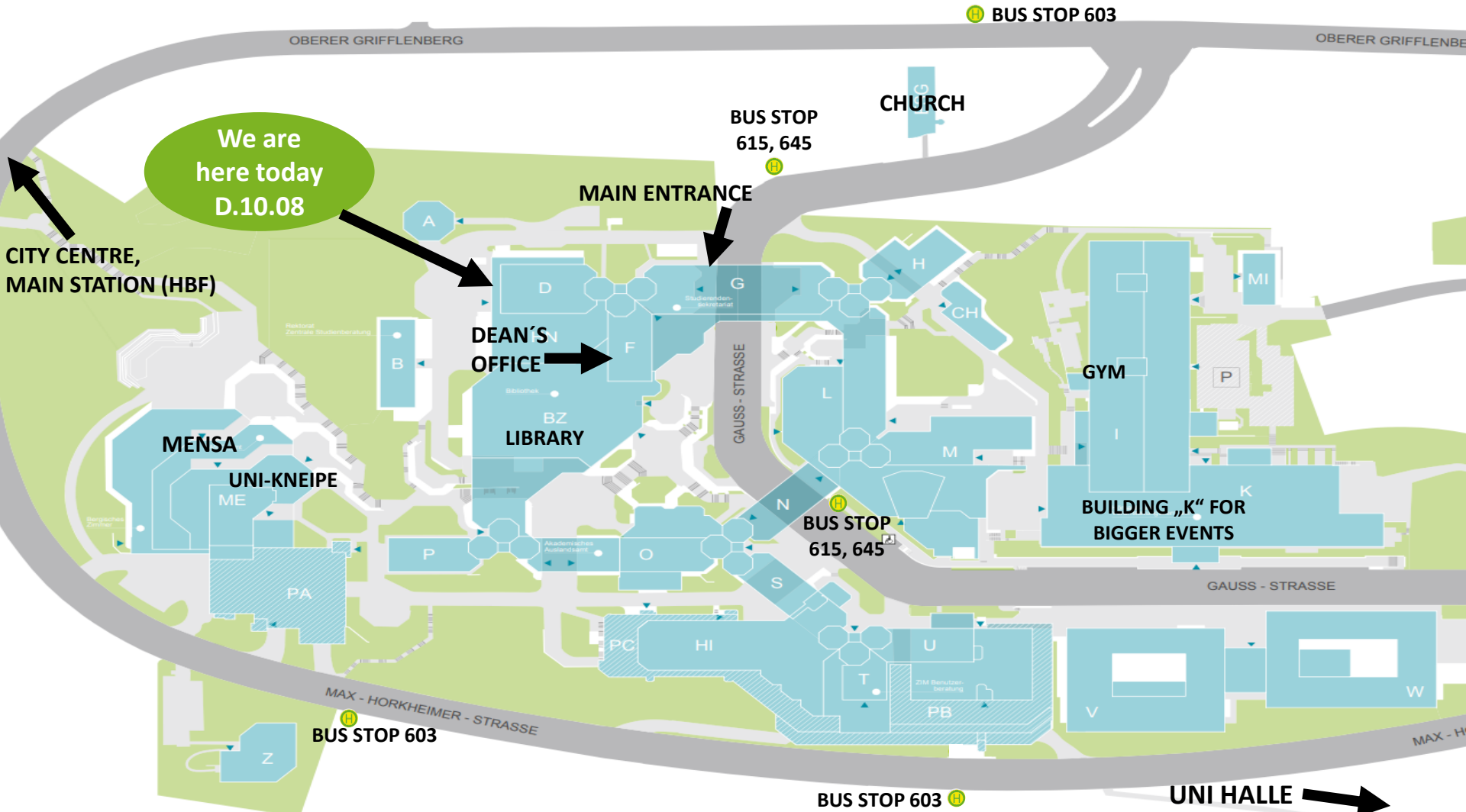


- **Excursion Programme for International Students:** throughout winter semester
- **FK4 Welcome Event by the International Center:** **on request** tbd by Najib Sabbagh
- **Weekly international students get-together:** every Thursday at 19:00 at the Uni Kneipe (ME.04)
- **Get-together Day at University of Wuppertal:** 10.11.2025 from 16:00 – 18:00 at the BUW church; register before 03.11 under: zsbworkshops@uni-wuppertal.de
- **Announcement of exam dates** before the Christmas break in December 2025
- Christmas break 24.12.2025 – 02.01.2026
- Lecture period ends 06.02.2026

Helpful Links

- IntSek office (admission and registration: <https://www.uni-wuppertal.de/en/international/international-students/>)
- 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.uni-wuppertal.de/en/international/international-profile/in-touch-support-programme-for-international-students-studies-careers/buddy-programme/>
- 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
- Psychological Counselling: <https://www.zsb.uni-wuppertal.de/de/beratung/psychologische-beratung/>
- Moodle: <https://moodle.uni-wuppertal.de/login/index.php>
- StudiLöwe: <https://www.studilöwe.uni-wuppertal.de/>

Campus Map



Appendix: CSiS Curriculum

Overview CSiS Curriculum based on Examination Regulations 2020 3rd amendment 13.11.2023

Pflichtbereich / Compulsory Subjects

Term	Computer Simulation	Computer Science	Numerical Methods
1 (WiSe) 28 CP	Computer Simulation 1* 11 CP Lab Course I 150h Introduction to Computer Simulation 120h Block Course on Mathematical Foundations 60h	Computer Science 1 9 CP Modern Programming 180h Virtualization I 90h or Introduction to HPC 90h	Numerical Methods 1 8 CP NM1: Numerical Analysis and Simulation I 240h or NM1a: Numerics of Ordinary Differential Equations with components: a + b or a + c 240h or MatML: Mathematical Machine Learning 240h
2 (SoSe) 24 CP	Computer Simulation 2 13 CP Data Analysis 150h Parallel Algorithms 240h	Computer Science 2 3 / 7 CP Tools 90h or Bayesian Learning 90h	Numerical Methods 2a / 2b 8 CP Numerical Methods 2a: Numerical Analysis and Simulation II 240h or Numerical Methods 2b: Numerical Methods in Classical Field Theory and Quantum Mechanics 240h
3 (WiSe) 22 CP	Computer Simulation 3* 12 CP Introduction to Computer Simulation II 120h Lab Course II 240h	Computer Science 2 (contd.) 4 / 7 CP Image Processing and Data Visualization 120h or Virtualization II 120h or Bayesian Learning (contd.) 120h	Numerical Methods 3 6 CP Numerical Linear Algebra 180h

Table 1: Overview CSiS Curriculum: Obligatory Subjects

*final module exam with limited repeatability: 3 attempts in total

Thank you for your attendance!