Introduction

Master Computer Science

Summer semester 2021

David Keller

Academic Advisor
Master’s Goals & Overview
Goals of the Master Program

- **In-depth education**
  - Broad range of elective subjects, mostly research-oriented

- **Greater independance**
  - Seminar, Software Lab, Master‘s thesis

- **More responsibility for future job**
  - Ideation and leadership qualities
  - Less implementation

- **Qualification for PhD**
Overview of Master Computer Science

- Comprises **120 ECTS credits** (Credit points, Leistungspunkte) in **4 semesters** (Regelstudienzeit)
  - ECTS credits are reflecting a course’s workload
  - 30 Credits are full workload for one semester

- Only few mandatory achievements
  - No fixed study plan
  - No mandatory courses, freedom of choice
    - With restrictions ;-)
  - Large responsibility for own studies!
Overview of Master Computer Science

Structure of study program:

- **Courses (electives)**: 57 – 63 Credits
- **1 Seminar**: 4 Credits
- **1 Software Lab**: 7 Credits
- **Depth oral colloquium**: 3 Credits
- **Master's thesis**: 30 Credits
- **Minor (Application Subjects)**: 14 – 18 Credits*  
  *exact number depends on chosen subject

120 Credits

<table>
<thead>
<tr>
<th>Computer Science (Major)</th>
<th>Minor</th>
<th>Master's thesis</th>
</tr>
</thead>
<tbody>
<tr>
<td>72 - 76 Credits</td>
<td>14 - 18 C.</td>
<td>30 Credits</td>
</tr>
</tbody>
</table>
Restrictions on choosing Elective Courses

- **Four fields in Computer Science:**

  - **Theoretical CS:** 12-35 Credits
  - **Software & Communication:** 0-35 Credits
  - **Data- & Information-Management:** 0-35 Credits
  - **Applied CS:** 0-35 Credits

- Minimum of **12 credits** for electives in **theoretical computer science**
- Maximum of **35 credits per field**
  - Note: Excluding your seminar, software lab and depth colloquium
  - Hard limit: If you exceed 35 credits, the last exams will not be counted!
# Possible (!) Course of Study

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Semester</td>
<td>Elective Theoretical Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Minor V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Theoretical Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Seminar S2</td>
<td>4 ECTS</td>
</tr>
<tr>
<td></td>
<td>Minor V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Depth Oral Colloquium</td>
<td>3 ECTS</td>
</tr>
<tr>
<td>2. Semester</td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Seminar S2</td>
<td>4 ECTS</td>
</tr>
<tr>
<td></td>
<td>Minor V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Depth Oral Colloquium</td>
<td>3 ECTS</td>
</tr>
<tr>
<td>3. Semester</td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Elective Computer Science V2 Ü1</td>
<td>4 ECTS</td>
</tr>
<tr>
<td></td>
<td>Software Lab P4</td>
<td>7 ECTS</td>
</tr>
<tr>
<td></td>
<td>Minor V3 Ü2</td>
<td>6 ECTS</td>
</tr>
<tr>
<td>4. Semester</td>
<td>Master’s thesis</td>
<td>27 ECTS</td>
</tr>
<tr>
<td></td>
<td>Master’s colloquium</td>
<td>3 ECTS</td>
</tr>
</tbody>
</table>

- **30 ECTS**
- **31 ECTS**
- **29 ECTS**
- **30 ECTS**
Overview of Master Computer Science

- Electives might not add up to exactly the required numbers.
- You can exceed most limits without negative consequences. All courses count, weighted according to their credits.

Courses (electives) 57 – 63 Credits
1 Seminar one course
1 Software Lab one course
Depth oral colloquium one colloquium
Master’s thesis one thesis
Minor (Application Subjects) at least 14 – 18 Credits*  
*exact number depends on chosen subject

at least 120 Credits
Courses & Exams
Courses (Electives)

- One elective course usually comprises
  - Lecture
  - Exercise (practical and/or theoretical), maybe exercise groups
  - Usually V3 Ü2 oder V3 Ü1, 6 Credits
    - V3 = 3 hours of lecture per week
    - Ü2 = 2 hours of exercise per week

- Examined by **final exam** at the end of the semester
  - Two exams per year, usually both at end of the semester
    - In some minors: one exam per semester
  - Written or oral, decided by teachers
  - Teachers can decide on **exam admission** criteria!
    - Hand in solutions which are corrected by teachers, achieve minimum score
    - Pass a presence exercise / midterm exam
    - ...
  - Note: **exam admissions only valid for one year!**
RWTHonline & ZPA

- **RWTHonline**: [https://online.rwth-aachen.de](https://online.rwth-aachen.de)
  - Campus management system of RWTH Aachen University
  - Overview on courses offered per semester
  - Examination regulations
    - Overview about all courses (modules) assigned with a study program
  - Study management for students
    - Registration for courses & exams
    - Overview of study status & grades
    - ...
  - Manuals: [https://wiki-intern.rwth-aachen.de/display/RD/Manuals+for+Students](https://wiki-intern.rwth-aachen.de/display/RD/Manuals+for+Students)

- **ZPA**: Zentrales Prüfungsamt (Central Examination Office)
  - Administrative management of exams, administration of grades, issuing transcripts
Registering for Elective Courses (Lecture/Exercise)

- Register for each lecture/exercise via RWTHonline
  - Getting access to all learning material: slides, exercise sheets, lecture recordings, …
    - Mostly via RWTHmoodle learning rooms
  - Course dates are filled in into your internal calendar
  - You are put on the mailing list for the course
  - Note: no unified registration periods! Each teacher configures own ones. Check registration periods of interesting courses timely!

- What if there is no registration???
  - Maybe the teacher has not yet configured anything…
  - Or a teacher manages all material and e-mail lists on own web pages
  - Always try to attend first lecture of a course to get such organizational information!
Registering for Elective Courses

1. Open the course semester you would like to plan by clicking on the triangle that appears before each listed semester.
2. Select the module. Symbol:
3. Select the offer node. Symbol:
4. The semester is shown in the course title (a). If necessary, check the academic year is correct and change it using the arrow button (b).
5. Click on the green T symbol in the “Part” column: (c)
   If the symbol is red or gray, it is not possible to register for the course.
Registering for Elective Courses

1. You will see this registration form. It is always the same, whether you are using the Curriculum Support, My Calendar, or My Courses apps.

2. Review your entries.

3. If you are not sure whether you would like to take the course, you can add the course group to your favorites. Click on the star next to the group title and then BACK. Your bookmarked dates will now appear in your calendar, although you are not yet registered on the course. (see Slide 12).

4. If you would like to take the course, click on CONTINUE on the form.
Registering for Elective Courses

1. Select the SPO context. Only choose the “free registration” option if no SPO context is available. Places on courses with limited capacity will e.g. often be preferentially allocated to registrations with SPO context.

2. If you can choose from several groups, select your preferred group and specify your preference ranking.
Registering for Elective Courses

1. Click on ENTER PLACE REQUEST to complete your registration. This button appears once you have entered all the required details.

2. Follow the menu prompts until the system shows that you have submitted your request. Your request for a place will first be reviewed. Once you have been allocated a place you are registered on the course.
Registering for Elective Courses

1. Check your registration status under “My Courses” in the Courses app.
2. You can edit or cancel your request for a place here within the stated deadlines.

NOTE: registering for a course does not mean you are registered for the relevant exam(s). You must register for all your exams in an additional process (see Slide 22ff.)
Registering for Exams

- Registering for lectures/exercises only allows you to participate in a course

- Additional registration for exam required!
  - Separate registrations for first and second exam configured
    - Only possible to register for one date
    - In doubt, register for the first one

- Registration period
  - Standard for first exam: 1st April – 15th June
  - Standard for second exam: till 7 days before exam date

- Important note:
  - Carefully check periods for each course! Teachers can modify them!
  - Listen for announcements for summer semester
  - Do not forget registration! Late registrations generally not possible!
Registering for Exams

1. Open the course semester you would like to plan by clicking on the triangle that appears before the listed semester.
2. Select the module. Symbol:
3. Select the exam node. Symbol:
4. The semester is shown in the exam title (a). If necessary, check the academic year is correct and change it using the arrow button (b).
5. Click on the green P symbol in the “Part” column (c). If the symbol is red or gray, it is not possible to register for the exam.
### Registering for Exams

Semester recommendations will not always be given. In such cases, use “Curriculum” in Curriculum Support.

Example of registering for an exam:

1. Click on “Exam date” in the NODE FILTER drop down menu. (a)  
   Registering for a course via the curriculum works in the same way. Use “NODE FILTER (all)” for this.

2. Open the exam nodes for the exam you would like to take and check the academic year (see Slide 24.)

3. Click on the green P symbol to open the registration form. (b)
Registering for Exams

The “Subject exam/Module exam” window will open.
This happens whether you register via Curriculum Support, your Calendar, the Examination Dates, or the Exam Registration app.
Under “Exam dates and registration” select CONTINUE TO REGISTRATION.
Registering for Exams

1. Check the exam details.
2. Make sure your programme details are correct.
3. Click on REGISTER and follow the menu prompts until the system confirms you are registered.

It is only possible to be preliminarily registered for some exams.

What does “preliminarily registered” mean?
In some subjects you are required to fulfill certain prerequisites before taking the exam. These are clearly laid out in the module catalog of your examination regulations.

When you submit a conditional registration, the prerequisites will be checked at a later time. If you have fulfilled the prerequisites up to 6 days before the exam date, the system will automatically register you for the exam. If you have not fulfilled them by this time, you will be de-registered.
Registering for Exams

- You can see an overview of your exam registrations via the Exam registration application in the "My Exams" tab.
- You can de-register here within the stated deadlines. To do so, click on DEREGISTER in the Operations column. The “Subject exam/Module exam” window will open. (see Slide 27)
(De-)Registering for Exams

- Withdrawal of exam registration possible
  - Until three working days before the exam date

- Not taking an exam because of illness
  - Doctor’s certificates must be issued on the day of the exam the latest
  - Certificate must indicate that you cannot take exams on that day
  - Must be handed in at ZPA at latest on the third working day after the respective exam
  - ZPA withdraws your registration
  - Official regulations: [https://www.rwth-aachen.de/go/id/eir/lidx/1](https://www.rwth-aachen.de/go/id/eir/lidx/1)

- Missing a registered exam without medical certificate
  - Counts as fail

Currently: Special rules!
Deregistering for Exams

The following applies to all Bachelor’s and Master’s degree programmes:

A de-registration within the stated deadline (a) is not considered as a withdrawal by the system and will not appear in the printout of your study record.

If you would like to de-register from an exam, click on CONTINUE TO Deregistration (b) and follow the menu prompts until the system confirms you are de-registered.
Repeating Exams

- **Participation in 2nd exam**
  - If failing 1st exam, withdrawing registration or being ill
  - **New registration required!**
    - Possible only after results of 1st exam are published

- **Remember: every exam has to be actively registered for!**

- **You can take each exam at most three times**
  - Exam plus two repetitions
  - **When failing three times, you cannot take that course any more**
    - IF failing the course ends your studies, you can take an oral supplementary examination
      - You have to apply for it in time
Seminar & Software Lab

- **Seminar**: Independant elaboration of a topic from existing literature
  - Literature survey, writing a paper & giving a talk
  - Teachers offer seminars on various topics of their research directions
  - Typically 10 – 30 participants

- **Software Lab**: Solve practical tasks
  - No industry practicals!
  - Development, implementation, constructing prototypes, …
  - Teachers offer practicals on various topics
  - Typically 10 – 20 participants, teamwork

- Both: at most three tries possible
  - Failing three times ends your studies!
Participation in Seminars & Software Lab

- Distribution of places independent of RWTHonline
  - Central distribution system for all places in seminars and practicals
  - Online registration in June/July for winter semester and in December/January for summer semester
    - Registration via: https://supra.informatik.rwth-aachen.de/
  - After places‘ assignment, you might be asked to register for the assigned seminar/practical via RWTHonline, or the teacher registers you
    - Process announced in kickoff-meeting

- Withdrawal possible until three weeks after distribution of topics
  - Deregister in RWTHonline or announce withdrawal to teacher
    - Process announced in kickoff-meeting
Excursus: Voluntary Courses

- Additional lectures / seminars / practicals can be taken as voluntary courses
  - Not only Computer Science courses, but arbitrary courses offered at RWTH Aachen University

- Grades will be on Master‘s certificate, but they are not considered for your degree and for your final grade

- Registration:
  - Hopefully via RWTHonline
    - If it does not work, via ZPA
  - After registration but before the exam, ZPA must be informed that this course is taken as a voluntary course
Depth Oral Colloquium

- **Oral exam on coherent topics**
  - Courses with an amount of 12 – 18 Credits in total
    - At least three courses (may include seminar)
    - Can be courses in which you already have done an exam (but does not have to)

- **Assessment:** 3 Credits
  - Weight for final Master’s grade: 12 Credits (counted 4-fold)
    - ... while all other modules are counted corresponding to their credits

- **Registration:**
  1. Discuss courses and examination date with examiner
  2. Registration in RWTHonline via examiner
Master’s Thesis

- Typically last part of your studies
- Independent work on a topic with methods learnt during the course of studies
- Practical work, written thesis, talk
- Master’s thesis is handed out (exclusively) by a Computer Science professor (and his/her research assistants)
- Topics from other departments or the industry will not be accepted
- Industry-cooperation is possible if intended by the supervising professor
- Thesis is evaluated by two reviewers (= professors)
- Thesis can be repeated once
Master’s Thesis

- Assessment: 30 Credits (one full semester)
  - 27 Credits for Thesis
  - 3 Credits for Talk

- Submission Deadline: 6 months from registration

- Registration
  - You must have achieved at least 60 credits to register the thesis
  - Requirements (Auflagen) have to be passed before registration
  - Topic is handed out by supervising professor (primary reviewer)
  - Personal registration in ZPA
  - Examination Board informs you about your submission deadline
Minors (Application Subjects)

- Standard minors: [http://www.informatik.rwth-aachen.de/go/id/nfvy/lidx/1](http://www.informatik.rwth-aachen.de/go/id/nfvy/lidx/1)
  - Business Administration (BWL)
  - Electrical Engineering
  - Mathematics
  - Philosophy
  - Mechanical Engineering
  - Medical Sciences
  - Physics
  - Biology
  - Chemistry
  - Psychology
  - ... and possible to apply for other subjects
  - 18 ECTS
  - 16 ECTS
  - 14-18 ECTS

- If you had no minor in your Bachelor, or you switch minor:
  - Additional 8 – 12 credits from Bachelor required (no formal proof)
Business Administration (BWL)

- Select from large catalogue of elective courses
Two Catalogues, register for courses from both

- Catalogue A: „1 out of 3“, 2 x 5 Credits
  - Systemtheorie 1 [SS] und 2 [WS]
  - Theoretische Informationstechnik 1 [WS] und 2 [SS]
  - Elektromagnetische Felder 1 [WS] und 2 [SS]

- Catalogue B: „n out of m“, 8 Credits
Mathematics

- Choose from relatively large catalogue of elective courses
Mechanical Engineering

- Eight specializations:
  - Produktionstechnik
  - Konstruktionsstechnik
  - Energietechnik
  - Verfahrenstechnik
  - Kunststofftechnik
  - Textiltechnik
  - Fahrzeugtechnik
  - Luftfahrttechnik

- No choice within specialization (except production technology)
- It is possible to apply for other specializations
Psychology

- Defined study program:
  - Current Topics in Media Psychology
  - Empirical Research Methods and Experiment Design
  - Individuals and Technology - Advancing Seminar I
Medical Sciences

- Two mandatory courses, each 2 Credits
  - Einführung in die Medizinische Informatik
  - Methodologie der Medizin für Naturwissenschaftler

- Two elective courses, in total 8 Credits

- Term paper (Studienarbeit), 6 Credits
Physics

- Choose one of three specializations
  1. Block A
     - From Molecular to Continuum Physics I + II
     - Computational physics
  2. Block B
     - From Molecular to Continuum Physics I + II
     - Quanteninformation
  3. Block C
     - Experimentalphysik III + IV

- No choice of courses within specialization
Philosophy

- Courses from
  - Practical Philosophy
  - Theoretical Philosophy
  - Specialization
Defined study program:
- Allgemeine Technische Chemie und Makromolekulare Chemie
- Praktikum Technische und Makromolekulare Chemie
- Angewandte Spektroskopie und Instrumentelle Analytik
Biology

- Choose one out of five specializations:
  - Biotechnologie
  - Mikrobiologie und Genetik
  - Molekularbiologie und Zellbiologie
  - Pflanzenwissenschaften
  - Umweltwissenschaften
Which Courses should I take???

Presentation of Elective Courses
Videos will be published online
https://www.informatik.rwth-aachen.de/go/id/cpjfn/lidx/1/
Which Courses should I take???

- Browse semester’s course list

Courses

Organisation
RWTH Aachen University

Term
2018 W

Filter by course number or course title

61.36955 Advanced Control Systems L 2 SWS
Lecturer: Misgeld, Berno Johannes Engelbert

61.36953 Advanced Control Systems E 1 SWS
Lecturer: Misgeld, Berno Johannes Engelbert

12.22387 Advanced Internet Technology (Exercise) E 1 SWS
Lecturer: Thißen, Dirk

Informatik [2004], Lehramt an Gymnasien und Gesamtschulen
Informatik [2004], Promotion
Informatik [2009], Master (1-Subject)
Informatik [2009], Promotion
Informatik [2010], Bachelor (1-Subject)
Informatik [2010], Diploma
Which Courses should I take???

- Or use Curriculum Support to get an overview
Which Courses should I take???

- Every examination regulation is depicted as a tree in RWTHonline.
- The tree elements are called “nodes.”
- In Curriculum Support, the nodes are displayed as symbols.

![Diagram of a tree with nodes: Root node (e.g. [2010] Chemistry), Rule node (e.g. Compulsory subject), Module node (e.g. General Chemistry I), Offer node (e.g. Lecture), Exam node (e.g. Exam).]

- Courses and exams are localized at the lowest node level (offer and exam nodes) and are thus assigned to a curriculum, often called “position in curriculum” or “SPO context.”
Which Courses should I take???

### Curriculum
**Academic year 2018/19**

<table>
<thead>
<tr>
<th>Node-Name</th>
<th>Rec. Sem. (W/S)</th>
<th>Credits</th>
<th>Duration</th>
<th>WF</th>
</tr>
</thead>
<tbody>
<tr>
<td>[2009] Informatik</td>
<td></td>
<td>120</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Wahlpflichtbereiche</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anwendungsfach</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Praktikum, Seminare, Schwerpunkt-Kolloquium</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masterarbeit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**88 079 Computer Science (HG-NRW/2009, Master programme, current)**
### Which Courses should I take???

<table>
<thead>
<tr>
<th>Node filter-Name</th>
<th>Part of the Curriculum</th>
<th>Rec. Sem. (W/S)</th>
<th>Credits</th>
<th>Duration</th>
<th>WF</th>
</tr>
</thead>
<tbody>
<tr>
<td>[2009] Computer Science</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theoretical Computer Science</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1113605] Algorithmic Model Theory II</td>
<td>Yes</td>
<td></td>
<td>4</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>[1211981] Advanced Automata Theory</td>
<td>Yes</td>
<td></td>
<td>6</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>[121198101] Exam Advance Automata Theory</td>
<td>Yes</td>
<td></td>
<td></td>
<td>1. / -</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Examination(s) in academic year: 2019/20

<table>
<thead>
<tr>
<th>Examination(s) in academic year: 2019/20</th>
<th>Part</th>
<th>Lecturer (Assistant)</th>
<th>Status</th>
<th>Place (1st session)</th>
<th>Time (1st session)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.PV21965 20S 0WS L Advanced Automata Theory</td>
<td></td>
<td></td>
<td>BF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[121198102] Exercises Advanced Automata Theory</td>
<td></td>
<td></td>
<td></td>
<td>1. / -</td>
<td>0.2</td>
</tr>
<tr>
<td>12.02776 20S 2WS E Advanced Automata Theory</td>
<td></td>
<td>Löding C</td>
<td>GP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lecture Advanced Automata Theory</td>
<td></td>
<td></td>
<td></td>
<td>1. / -</td>
<td>3.1</td>
</tr>
<tr>
<td>12.07055 20S 3WS L Advanced Automata Theory</td>
<td></td>
<td>Löding C</td>
<td>GP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1212647] Advanced Model Checking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1212657] String Processing Algorithms and Data Compression Techniques</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1216860] Algorithmic Foundations of Datascience</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1217538] Computational Geometry</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1217537] Algorithmic Learning Theory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[1113583] Algorithmic Model Theory !</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Which Courses should I take???

- Or study research groups on Computer Science web pages
  - [http://www.informatik.rwth-aachen.de](http://www.informatik.rwth-aachen.de)
Which Courses should I take???

- Overall: get overview by
  - RWTHonline: https://online.rwth-aachen.de
  - Group websites: http://www.informatik.rwth-aachen.de
  - Info page of one of our students: https://rwthoffline.de/
  - Introduction to elective courses
    - https://www.informatik.rwth-aachen.de/go/id/cpjfn/lidx/1/
  - At the beginning of the semester: Visit diverse courses to get an impression!
  - Mentor program
Mentor Program

- Mentor discussion with a Computer Science professor in small groups
- Registration required

http://www.informatik.rwth-aachen.de/cms/Informatik/Studium/Im-Studium/Mentoring/~oiqu/Professorenmentoring-fuer-Masterstudiere/lidx/1/
Requirements (Auflagen)

- Requirements listed in approval notice
- Need to be fulfilled before start of Master's thesis
- Registration in RWTHonline
  - Special case: Elective course from Theoretical Computer Science needs to be selected from Bachelor Computer Science Catalog and registered personally at the ZPA.
Stay Abroad: Exchange Semester

- Possible during Master’s studies: **Exchange semester at one of our partner universities**
  - New environment, new culture
  - Other teaching culture

- No extension of study duration (**If everything works well!**)  
  - Transfer of credits achieved at partner university  
    - Note: make sure that credits can be transferred before your stay!  
  - Leave of absence possible

- When to do a stay abroad?  
  - Generally anytime  
  - But coordinate with your minor

Currently very difficult due to COVID-19
Start planning now!

- **Discover possible destinations**
  - Country, teaching language, course offerings

- **Deadlines and prerequisites**
  - Applications for WS have to be submitted till mid December (world-wide) resp. mid February (Europe)!
  - Knowledge of teaching language required
    - Take language courses soon

Currently very difficult due to COVID-19

- **More information:**
  - International Office (SuperC):
  - Study advisory Computer Science:
    - [https://www.comsys.rwth-aachen.de/teaching/outgoings/](https://www.comsys.rwth-aachen.de/teaching/outgoings/)
Study Advisors & Other Contacts
Mailing lists

- General Announcements:
  - informatik@lists.rwth-aachen.de
  - Important dates and events, registration for seminars and practicals, ...
  - Subscribe at: https://lists.rwth-aachen.de/postorius/lists/informatik.lists.rwth-aachen.de/
Contacts

- **General contacts**
  - Central Study Advisory: general and interdisciplinary questions, psychological counseling, workshops/seminars on learning techniques, techniques for exam preparation, etc.
  - International Office: general information on staying abroad

- **Study advisors**
  - Master Computer Science: David Keller
  - Minors: apl. Prof. Dr. Thomas Noll, Priv.-Doz. Dr. Ralf Klamma
  - Exchange semesters: Dr. Dirk Thißen

- **Offerings by students**
  - Allgemeiner Studierendenausschuss (AStA)
  - Fachschaft I/1 (Mathematik/Physik/Informatik)
Central Study Advisory

- **Tasks:**
  - General and interdisciplinary questions
  - Psychological counseling
  - Workshops/seminars on techniques for learning and exam preparation

- **Contact:**
  - Templergraben 83, 52062 Aachen
  - Phone: 80-94050
  - E-Mail: studienberatung@rwth-aachen.de
Study Advisory Master Computer Science

- **Study Advisor**
  - David Keller, M.Sc.

- **Kontakt**
  - master@cs.rwth-aachen.de

- **Consultation hours:**
  - Monday 12:30 – 13:30, Room 9220 (Ahornstr. 55, E3)

- **Website**
Websites of Study Advisory


- Slides
- FAQs
- Contact information of study advisors
- Current examination regulations
- etc.
Study Advisors for Minors

- **Mathematics, Physics, Biology, Chemistry, Business Administration**
  - Priv.-Doz. Dr. Ralf Klamma
    - klamma@informatik.rwth-aachen.de
    - Lehrstuhl für Informatik 5, Informatikzentrum, Ahornstr. 55
      Raum 6236, Gebäude E2, 2. Etage
    - Consultation hours: on appointment

- **Electrical Engineering, Mechanical Engineering, Medical Science, Philosophy**
  - apl. Prof. Dr. Thomas Noll
    - noll@cs.rwth-aachen.de
    - Lehrstuhl für Informatik 2, Informatikzentrum, Ahornstr. 55
      Raum 4211, Gebäude E1, 2. Etage
    - Consultation hours: on appointment
Study Advisory for Exchange Semesters

- **Information for students of Computer Science**
  - Dr. Dirk Thißen
    - student-exchange@cs.rwth-aachen.de
    - Lehrstuhl für Informatik 4, Informatikzentrum, Ahornstr. 55 Raum 9014, Gebäude E3, Erdgeschoss
    - Consultation hours: on appointment
  - [http://www.comsys.rwth-aachen.de/teaching/exchange/](http://www.comsys.rwth-aachen.de/teaching/exchange/)

- **General information**
  - International Office
    - SuperC, Templergraben 57
Allgemeiner Studierendausschuss (AStA)

- Allgemeiner Studierendausschuss (AStA) der RWTH Aachen
  - Hochschulweite Interessenvertretung der Studierenden an der RWTH
    - Hochschulpolitische Vertretung der Studierenden gegenüber der Hochschule, dem Land und der Öffentlichkeit
    - Verwaltung der Finanzmittel der Studierendenschaft
    - Beratung zu verschiedensten sozialen und studentischen Themen
    - Organisation eines Kulturprogramms
    - Politische Bildung
  - Kontakt
    - Pontwall 3, 52062 Aachen
    - Öffnungszeiten
      - Mo-Mi, Fr 10-14 Uhr, Do 14-18 Uhr
    - Telefon: 80-93792
    - asta@asta.rwth-aachen.de
    - www.asta.rwth-aachen.de

Might be different due to COVID-19
Fachschaft I/1 (Mathematik/Physik/Informatik)

- Studierendenvertretung der Bereiche Mathematik, Physik und Informatik
  - Augustinerbach 2a, 52062 Aachen
    - Telefon: 80-94506
    - Öffnungszeiten:
      - Mo-Fr 12:30-14 Uhr (im Semester)
      - Di und Do 12:30-14 Uhr (in der vorlesungsfreien Zeit)
  - Außenstelle Informatikzentrum, Ahornstraße 55, Raum 2015
    - Telefon: 80-26741
    - Öffnungszeiten
      - Keine in der vorlesungsfreien Zeit
      - Zu Beginn des Semesters werden eventuell Zeiten festgelegt
      - Generell: wenn die Türe offen ist 
  - fs@fsmpi.rwth-aachen.de
  - http://www.fsmpi.rwth-aachen.de

Might be different due to COVID-19
Institutions

- **Computer Science Institutions**
  - Computer Science Library

- **University institutions**
  - Textbook collection (Lehrbuchsammung)
  - Main library
Central Examination Office (ZPA)

- Registering for depth oral colloquium & master‘s thesis
- Maybe necessary to contact in case of trouble with study records
  - SuperC, Templergraben/Wüllnerstr.
  - Opening hours:
    • Mon & Wed 13:00 - 15:45
    • Tue & Thu 9:00 - 12:30
    • Fri on appointment

Might be different due to COVID-19
RWTHonline Support

• Instructions
  ▪ RWTH’s internal Wiki: https://wiki-intern.rwth-aachen.de
  ▪ Videos for students by students https://rwth.video/RWTHonline

• RWTH Web
  ▪ The most important information on your studies at http://www.rwth-aachen.de/academics
  ▪ Registrar’s Office, International Office
  ▪ Central Examination Office
  ▪ AStA – Students’ Committee, Student Councils

• Student Advising
  ▪ Departmental Advisors
  ▪ Student Advice Centre

• Technical Support
  ▪ rwthonline@rwth-aachen.de
Computer Science Institutions

- **Computer Science Library**

- **Address:**
  - Informatikzentrum, Ahornstr. 55
  - Rooms 4001-4007
  - Opening hours:
    - Mon – Thu 8:30-19:30
    - Fri 8:30-17:00

- **Contact:**
  - Phone: 80-21026
  - biblio@informatik.rwth-aachen.de
  - [https://www.informatik.rwth-aachen.de/go/id/gszfh/](https://www.informatik.rwth-aachen.de/go/id/gszfh/)
Computer Science Institutions

- **Services of the library**
  - Large amount of books and journals
  - Literature to current lectures
  - Seminars on literature surveys
  - Several student working rooms
  - Kinder & Wissenschaft (KiWi):
    - Student working room with toys and facilities for baby change
  - Outdoor facility
University Institutions

- **Textbook Collection**
  - Wüllnerstr. 3, 52062 Aachen
  - Phone: 80-94496
  - Opening hours:
    - Mon – Fri 8:30-16:30

- **Main library**
  - Templergraben 61, 52062 Aachen
  - Phone: 80-94459
  - [http://www.ub.rwth-aachen.de](http://www.ub.rwth-aachen.de)
  - Opening hours:
    - Mon – Fri 8:00 – 24:00
    - Sat 9:00 – 24:00
    - Sun 11:00 – 24:00

Might be different due to COVID-19
Special Regulations due to COVID-19

- Multiple special regulations are in effect
  - Most courses are online
  - Modified deregistration policy for exams
  - Travel restrictions
  - Restrictions regarding entering university buildings

- Do I need to be in Aachen?
  - Most likely no. However, you might still be required to, unless you cannot get here due to travel restrictions.
  - Yes for the exams

- Regulations will change depending on the current situation
- For current updates and regulations see https://www.rwth-aachen.de/corona and https://www.aachen.de/corona
Questions?

Next up: Watch Presentation of Elective Courses