Introduction Master Computer Science

Wintersemester 2018/19

Anne Gehre
Agenda

• Masters Goals & Overview
• Courses & Exams
• Which courses should I take?
• Study Advisor & further Information
Agenda

• Masters Goals & Overview
• Courses & Exams
• Which courses should I take?
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Goals

• In depth education
  → Presentation Elective Courses

• Greater Independance
  → Seminars, Practicals, Masters Thesis

• More responsibility for future job
  → Ideation and Leadership qualities, less implementation

• Possibility for PhD
Terms / Institutions

- **Credits** = Kreditpunkte = ECTS
- **ZPA**: Zentrales Prüfungsamt/Central Examination Office
  Organisation of exams, Administration of grades
- **VZPA**: Virtuelles ZPA
- **RWTHonline**:  
  → [https://online.rwth-aachen.de](https://online.rwth-aachen.de)
  - Online Lecture index of the RWTH
  Offered courses per semester
  - Study management for students
  Overview of status, Grades, Registration for exams
  - Examination regulations
  Overview over all Courses (Module)
Overview Masters

• 120 Credits = 4 semesters normal period (Regelstudienzeit)
• Low madatory requirements
  → elected courses
  → no fixed study plan
  → freedom of choice
  → large responsibility for own studies
Overview Masters

Distribution Credits:

- Lectures: 57-63 Credits
- 1 Seminar: 4 Credits
- 1 Practical: 6-8 Credits
- Oral Colloquium: 3 Credits
- Masters thesis: 30 Credits
- Minor (Anwendungsfach): 14-18 Credits

120 Credits

Computer science (Major) 72 Credits
Minor 18 C.
Masters thesis 30 Credits
# Elective Courses Rules

## Four fields in Computer Science:

<table>
<thead>
<tr>
<th>Field</th>
<th>Credits Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical CS</td>
<td>12-35 Credits</td>
</tr>
<tr>
<td>Software &amp; Communication</td>
<td>0-35 Credits</td>
</tr>
<tr>
<td>Data- &amp; Information-Management</td>
<td>0-35 Credits</td>
</tr>
<tr>
<td>Applied CS</td>
<td>0-35 Credits</td>
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</tbody>
</table>

## Restrictions for choice of courses:

- Minimal / maximal amount of Credits in 4 Fields
- Exams in at least 3 fields
## Possible (!) Course of Study

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Lectures</th>
<th>Seminar</th>
<th>ECTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Semester</td>
<td>Wahlpflichtvorlesung Theoretische Informatik</td>
<td>V3 Ü2</td>
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<td>6 ECTS</td>
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<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Anwendungsfach I</td>
<td>V3 Ü2</td>
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<td>6 ECTS</td>
</tr>
<tr>
<td>2. Semester</td>
<td>Wahlpflichtvorlesung Theoretische Informatik</td>
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<tr>
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<td></td>
<td>Wahlpflichtvorlesung Informatik</td>
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<tr>
<td></td>
<td>Seminar I</td>
<td>S2</td>
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<td>4 ECTS</td>
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<tr>
<td></td>
<td>Anwendungsfach II</td>
<td>V3 Ü2</td>
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<td>6 ECTS</td>
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<tr>
<td>3. Semester</td>
<td>Wahlpflichtvorlesung Informatik</td>
<td>V3 Ü2</td>
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<tr>
<td></td>
<td>Wahlpflichtvorlesung Informatik</td>
<td>V3 Ü2</td>
<td></td>
<td>6 ECTS</td>
</tr>
<tr>
<td></td>
<td>Wahlpflichtvorlesung Informatik / Seminar II</td>
<td>V2 Ü1 / S2</td>
<td></td>
<td>4 ECTS</td>
</tr>
<tr>
<td></td>
<td>Praktikum</td>
<td>P4</td>
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<td>7 ECTS</td>
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<tr>
<td></td>
<td>Anwendungsfach III</td>
<td>V3 Ü2</td>
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<td>6 ECTS</td>
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<tr>
<td>4. Semester</td>
<td>Schwerpunktkolloquium</td>
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<td></td>
<td>Master-Arbeit</td>
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<td>27 ECTS</td>
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<tr>
<td></td>
<td>Master-Vortragskolloquium</td>
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<td>3 ECTS</td>
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</tbody>
</table>

Total ECTS: 109
Agenda

• Masters Goals & Overview
• Courses & Exams
• Which courses should I take?
• Study Advisor & further Information
Lectures

• Usually: V3 Ü2 oder V3 Ü1, 6 Credits
• Might require registration,
  → RWTHonline, explained by lecturer

Exercise courses

• Solve exercises
• Hand in exercises which are corrected by lecturer
• Exam admission might require an achieved minimum score in the exercises
  → Details will be given by the lecturer

Admission from previous semesters is not sufficient any more!
Lectures

Exams

• Written or oral exam
  → Lecturer will give details on the exam
Registration for exams

• Always register via RWTHonline first

  → Exam registration

• First and second exam are separate

  → only register for one of the dates

**Registration period**: 3rd of December 2018 – 10th of January 2019

  (Registration for second exam until 7 days before exam)

**DO NOT FORGET REGISTRATION**: Registration after registration period ends is generally not possible!
Exam Registration

- Questions: rwthonline@rwth-aachen.de
Exam Dates

Exam Dates at the Organisation

**Chair of Computer Science 8 (Computer Graphics and Multimedia)**

<table>
<thead>
<tr>
<th>Exam Code</th>
<th>Course Title</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.PV21514</td>
<td>Basic Techniques in Computer Graphics (FA)</td>
<td>02.02.2019</td>
<td>08:30 - 10:30</td>
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</tbody>
</table>

**Registration period**
03.12.2018, 00:00 - 10.01.2019, 23:59

**Deregistration possible until:** 30.01.2019

**Organisation:** [122310] Chair of Computer Science 8 (Computer Graphics and Multimedia)

Examiner: Kobbelt, Leif
Currently registered: 0 (max. 9999)

Registration is not possible yet. Please see the registration period.

<table>
<thead>
<tr>
<th>Exam Code</th>
<th>Course Title</th>
<th>Date</th>
<th>Time</th>
</tr>
</thead>
</table>

**Registration period**
03.12.2018, 00:00 - 14.02.2019, 23:59

**Deregistration possible until:** 18.02.2019

**Organisation:** [122310] Chair of Computer Science 8 (Computer Graphics and Multimedia)

Examiner: Kobbelt, Leif
Currently registered: 0 (max. 9999)

Registration is not possible yet. Please see the registration period.
Register for Lectures
# Register for Lectures

## Courses

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Term</th>
<th>Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>RWTH Aachen University</td>
<td>2018 W</td>
<td>Informatik [2009], ...</td>
</tr>
</tbody>
</table>

### Basic Techniques in Computer Graphics
- **Course Code**: 12.01058
- **Credits**: 2 SWS
- **Lecturer**: Kobbelt, Leif

### Basic Techniques in Computer Graphics
- **Course Code**: 12.01221
- **Credits**: 3 SWS
- **Lecturer**: Kobbelt, Leif

### Current Topics in Computer Graphics, Geometry Processing and 3D Prototyping
- **Course Code**: 12.56283
- **Credits**: 2 SWS
- **Lecturer**: Kobbelt, Leif

There are no registration procedures for the Basic Techniques in Computer Graphics course.

Course open for registration for the Basic Techniques in Computer Graphics course.
Register for Lectures

Course registration

<table>
<thead>
<tr>
<th>Basic Techniques in Computer Graphics</th>
<th>Enrollment</th>
<th>Ranking options</th>
<th>Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>from 03.10.18, 00:00 to 28.02.19, 23:59</td>
<td>1. Los (lang)</td>
<td>unlimited number of participants</td>
</tr>
<tr>
<td></td>
<td>to 29.03.19, 23:59</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Standardgruppe**

- **Lecturer**: Kobbelt, Leif
- **Dates**: Tue, 09.10.18, 14:30 - 16:00
  - **Location**: AH V (2356)050
  - ... show all
Register for Lectures

Course registration

Study Programme
Informatik (HG-NRW)

Choose your desired study programme first.

Basic Techniques in Computer Graphics

Enrollment
from 03.10.18, 00:00 to 28.02.19, 23:59

Deregistration
to 29.03.19, 23:59

Participants
unlimited number of participants

Team name (max. Team Size 4)

0 / 50

Registration is performed for all course groups.

12.01221 Basic Techniques in Computer Graphics

Standardgruppe

Lecturer
Kobbelt, Leif

Dates
Tue, 09.10.18, 14:30 - 16:00
AH V (2356/050)

... show all

BACK

ENTER PLACE REQUEST
Register for Lectures

Course registration

Study Programme
Informatik (HG-NRW)

Choose your desired study programme first.

Basic Techniques in Computer Graphics
not registered

Registration is performed for all course groups.

12.01221 Basic Techniques in Computer Graphics

Standardgruppe

Lecturer
Kobbelt, Leif

Dates
○ Tue, 09.10.18, 14:30 - 16:00
AH V (2356)(050)

... show all

Please check your course place request before you finally save it.
- Name: Anne Claudia Gehre
- Selected study programme: 1480 06 079 Informatik (HG-NRW)
- Registration procedure: Basic Techniques in Computer Graphics
- Course groups: Basic Techniques in Computer Graphics: Standardgruppe

ENTER PLACE REQUEST CANCEL
Register for Lectures

My courses

Term
2018 W

Filter by course number or course title

12.01221 Basic Techniques in Computer Graphics - Standardgruppe ★
L | 3 SWS

Registration procedure: Basic Techniques in Computer Graphics
Degree programme: 1480 06 079 Computer Science
Registration editable until 28.02.2019, Deregistration until 29.03.2019

Entries per page: 20 → 1
Exams

- Arbitrarily many **withdrawals** possible:
  1. Withdrawal of registration via RWTHonline
     **Until**: 10th of January 2019
  2. Withdrawal of a concrete exam in the **VZPA**
     **Until**: three workings days before the exam

- **each** Exam must be registered **actively**

- In case of withdrawal at the 1st exam date (VZPA), doctor‘s certificate, or
der fail, registration of **2nd exam** in VZPA.
  **Frist**: (after publishing grades) **7 days** before second exam

- Doctor‘s certificates must be issued **on the day of the exam**. They must be
  handed in at the ZPA **on the third working day (the latest)** after the
  respective exam.
Lectures

Exam repetition

- Exam + two repetitions (= 3 tries)
- oral supplementary examination after 2nd repetition
Seminar

• Independant elaboration of a topic from existing literature
• Talk + seminar paper
• Assessment: 4 Credits
• Three tries

• Lecturers offer seminars on various topics
• 10 – 30 Participants
Practical

• Solve practical tasks
  (not confuse with industry practical)
• Presentation of own results
• Assessment: 7 Credits
• Three tries

• Lecturers offer practicals on various topics
• 10 – 20 Participants, Teamwork
Seminar / Practical

• Central distribution independant of RWTHonline
• Online registration ca. 5 weeks before end of lecture period
  • Registration via: algo.rwth-aachen.de/fgi/test.quax?code=Angebot
  • Information mailing list: mailman.rwth-aachen.de/mailman/listinfo/informatik/

• Lecturers can register you in RWTHonline
  • Discuss process in kickoff-meeting
• „Orientationwithdrawal“ until three weeks after distribution of topics (unregister in RWTHonline)
• Later withdrawal: fail
Focus Colloquium

• Oral exam
• Coherent topics
• Lectures with an amount of 12 – 18 Credits in total (the same exams can be regular exams from your Masters)
• Assessment: 3 Credits
• Weight for final score (Masters): 12 Credits (4-fold)
• Registration:
  1. Discuss extent and date with examiner
  2. Personal registration in ZPA
Final Masters Grade

• Weighting of modules corresponds to their expense (ECTS)
• Exception: Focus Colloquium: 4-fold weighting
Voluntary Elected Courses

• Additional Lectures / Seminars / Prakticals can be taken as voluntary elected courses
• Grades will be on Masters certificate, but they will not influence the final grade
• Registration:
  • Regular via RWTHonline
  • After registration, but **before** exam the ZPA must be informed that this course is taken as a **voluntary course** (Wahlleistung)
Masters Thesis

• Independant work on a topic with methods learnt during the course of studies
• Practical work, written thesis, talk
• Masters thesis is handed out (exclusively) by a Computer Science professor (and his/her research assistants)
• Industry-cooperation is possible in agreement with the supervising professor
• Thesis is evaluated by two reviewers (= professors)
• Topic can be renewed once,
  Thesis can be repeated once
Assessment:

27 Credits for Thesis
3 Credits for Talk
(corresponds to one full-time semester)

Registration:

• At least 60 Credits are required
• Prerequisites (Auflagen) have to be fulfilled
• Topic is handed out by supervising professor (primary reviewer)
• Personal registration in ZPA
Minör (Anwendungsfächer)

• Standard-Subjects:
  • Buisness Administration (BWL)
  • Electrical Engineering
  • Mathematics
  • Philosophy
  • Mechanical Engineering
  • Medical Sciences
  • Physics

• Possible to apply for other subjects

• Switch minor subject or no minor subject in Bachelor:
  • Additional 8-12 credits from Bachelor

• Separate study advisors for minor courses
Electrical Engineering

• Two Catalogues, register for courses from both

• Catalogue A: „1 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 of m“, 8 Credits
  • See website of study advisor
Mathematics

- Elective Courses:
  - Numerische Analysis III [WS]
  - Numerische Analysis IV [SS]
  - Optimierung A [unregelmäßig]
  - Optimierung B [unregelmäßig]
  - Optimierung C [unregelmäßig]
  - Funktionentheorie II [unregelmäßig]
  - Funktionentheorie in mehreren Variablen [unregelmäßig]
  - Fourieranalysis I [unregelmäßig]
  - Fourieranalysis II [unregelmäßig]
  - Diskrete Mathematik I [unregelmäßig]
  - Diskrete Mathematik II [unregelmäßig]
  - Kontrolltheorie [unregelmäßig]
  - Algebra [WS]
  - Netzwerkoptimierung in der Praxis [SS]
  - ... s. website of study advisor
Mechanical Engineering

- Eight Specializations:
  - Produktionstechnik
  - Konstruktionstechnik
  - Energietechnik
  - Verfahrenstechnik
  - Kunststofftechnik
  - Textiltechnik
  - Fahrzeugtechnik
  - Luftfahrttechnik

- Prescribed Lectures

- No choice within specialization (except production technology)

- It is possible to apply of other specializations
Medical Sciences

• Two mandatory courses, each 2 Credits
  • Einführung in die Medizinische Informatik [WS]
  • Medizinsche Informationssysteme [SS]

• Two elective courses, in total 8 Credits
  • See website of study advisor

• 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 (Vertiefungsmodul)
Agenda

• Masters Goals & Overview
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• Which courses should I take?
• Study Advisor & further Information
Which courses?

https://online.rwth-aachen.de
Which courses?

- Applications
- Certificates (Documents)
- Course of Studies
- Courses
- Current/ Home Address
- Degree Programmes
- Exam Registration (available soon)
- Help
- Language Center
- Modules
- My Achievements (available soon)
- My Calendar
- My Courses
- News Ticker
- Study Overview (Curriculum Support)
- Tuition Fee
- exam dates
88 079 Computer Science (HG-NRW/2009, Master programme, current)

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>1</td>
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<tr>
<td>+ Anwendungsfach</td>
<td></td>
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<tr>
<td>+ Praktikum, Seminare, Schwerpunkt-Kolloquium</td>
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<tr>
<td>+ Masterarbeit</td>
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Welche Vorlesungen soll ich besuchen?

<table>
<thead>
<tr>
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<th>Rec. Sem. (W/S)</th>
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<td>- Wahlpflichtbereiche</td>
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<tr>
<td>- Theoretische Informatik</td>
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<tr>
<td>+ Wahlpflicht Theoretische Informatik</td>
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<tr>
<td>+ Software und Kommunikation</td>
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<tr>
<td>+ Daten- und Informationsmanagement</td>
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<tr>
<td>+ Angewandte Informatik</td>
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<td>+ Chemie</td>
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<td>+ Elektrotechnik</td>
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<td>+ Maschinenbau</td>
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Which courses?

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<tr>
<td>+ [1212691] Derivative Code Compilers</td>
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</tr>
<tr>
<td>+ [1211912] Advanced Machine Learning</td>
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<td>+ [1211904] Advanced Methods in Automatic Speech Recognition</td>
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<td>+ [1212684] Advanced Statistical Classification</td>
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<td>+ [1212685] Advanced Topics in Statistical Natural Language Processing</td>
<td></td>
<td>6</td>
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<tr>
<td>+ [1212693] Automatic Generation and Analysis of Algorithms</td>
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<td>+ [1215750] Automatic Speech Recognition</td>
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<td>8</td>
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<tr>
<td>+ [1215721] Combinatorial Problems in Scientific Computing</td>
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<td>4</td>
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<td>+ [1215724] Computer Vision</td>
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<td>+ [1211921] Computer Vision 2</td>
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<td>+ [1211908] Current Topics in Media Computing and HCI</td>
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<tr>
<td>+ [1215698] Designing Interactive Systems I</td>
<td></td>
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# Curriculum

**Academic year 2018/19**

<table>
<thead>
<tr>
<th>Node-Name</th>
<th>Recommended Sem. (W)</th>
<th>Credits</th>
<th>Duration</th>
<th>WF</th>
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<tbody>
<tr>
<td>1st semester</td>
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<tr>
<td>no semester recommended</td>
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## Time Table

### Course timetable

#### 000001 RWTH Aachen University / 88 079 Computer Science (HG-NRW/2009, Master programme, current) (1. Semester)

<table>
<thead>
<tr>
<th>Monday, 08.10.2018</th>
<th>Tuesday, 09.10.2018</th>
<th>Wednesday, 10.10.2018</th>
<th>Thursday, 11.10.2018</th>
<th>Friday, 12.10.2018</th>
<th>Saturday, 13.10.2018</th>
<th>Sunday, 14.10.2018</th>
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</table>

08:30 - 10:00 Group W2 Exercise Course Capital Budgeting regular class, Exercise, Gruppe Tutorium W2; Lecturer: Bobenhausen, Nils-Christian HOS (113851105)
Which courses?

1. RWTHonline: https://online.rwth-aachen.de
2. Lehrstuhl-Seiten: www.informatik.rwth-aachen.de
Welche Vorlesungen soll ich besuchen?

1. RWTHonline: https://online.rwth-aachen.de
2. Group websites: www.informatik.rwth-aachen.de
3. Introduction to elected courses slides
4. At the beginning of the semester: Visit diverse courses to get an impression!
5. Mentor program
Mentor program

www.informatik.rwth-aachen.de
→ www.informatik.rwth-aachen.de/cms/Informatik/Studium/Im-Studium/Mentoring/~oiqu/Professorenmentoring-fuer-Masterstudiere/lidx/1/

• Mentordiscussion with a Computer Science Professor in small groups
• Separation in four fields of Computer Science
• Registration required
Prerequisites (Auflagen)

• Prerequisites listed in approval notice
• Need to be fulfilled before start of Masters thesis
• Bachelor-Courses: RWTHonline
Agenda

• Masters Goals & Overview
• Courses & Exams
• Which courses should I take?
• Study Advisor & further Information
Stays abroad in Bachelor/Master Informatik

Dirk Thißen
astube@informatik.rwth-aachen.de
Stay Abroad during Studies?

- **Personal Development**
  - New environment
  - New culture

- **Get to know new learning culture**
  - Different focus
  - Different education style

- **No delay of studies**
  - *(... If everything goes well!)*
  - Semester leave (Urlaubssemester) possible
  - Achievements abroad can be acknowledged
    - *Should be discussed/coordinated before the stay abroad!*
Duration of stay abroad

- **Master**
  - Start any time (only elected courses)
  - Best, as soon as possible
  - Choose courses at university abroad
    - *Check acceptability! Not all courses can be excepted!*
  - Only 30 Credits can be excepted according to MPO (examination regulations)
    - Corresponds to one semester
Exchange Programs

• **Erasmus**
  ▶ Within Europe, Agreement with 31 universities in different countries
  ▶ Organisation by Computer Science Department and International Office
  ▶ No tuition at university abroad

• **Cooperation Agreement**
  ▶ Bilaterale agreement with individual universities world wide
  ▶ Organisation by International Office
  ▶ No common agreements (tuition?)

• **UNITECH**
  ▶ Combination of stay abroad and practical

• **Freemover**
  ▶ Own organization, regular student: tuition etc.
Inform yourself early!

- Further Information:
  - International Office: www.international.rwth-aachen.de
    - List of partner universities
    - Deadlines
    - Application forms
    - Information on stays abroad outside of Europe
  - Auslandsstudienberatung Informatik: astube@informatik.rwth-aachen.de
    - Information on ERAMUS-Program
    - Discuss acceptance von achievements made abroad
    - Application forms
Websites of Study Advisory

www.informatik.rwth-aachen.de
→ Studium → Informatik-Studiengänge → Master

- Slides
- FAQs
- Contact information of study advisors
- **Mailing list of study advisory**
  mailman.rwth-aachen.de/mailman/listinfo/informatik/
- Registration for consultation hour of study advisors
- Current examination regulations
- etc.
Contact Study Advisors

www.informatik.rwth-aachen.de

→ Studium → Fachstudienberatung

Master Informatik:
    Jera Hensel          master@cs.rwth-aachen.de

Bachelor Informatik:
    Julian Schamper     bachelor@cs.rwth-aachen.de

Anwendungsfächer    BWL, Mathematik, Physik, Biologie, Chemie:
    Ralf Klamma          klamma@informatik.rwth-aachen.de

Anwendungsfächer    Elektrotechnik, Maschinenbau, Medizin, Philosophie:
    Thomas Noll         noll@cs.rwth-aachen.de

Auslandsstudienberater
    Dirk Thissen        astube@informatik.rwth-aachen.de
Central Study Advisory

www.rwth-aachen.de/studienberatung

• General and interdisciplinary questions
• Psychological counselling

Contact:
Templergraben 83, 52062 Aachen
Tel.: 80-94049/50/51

zsb@zhv.rwth-aachen.de
Institutions

www.informatik.rwth-aachen.de → Servicegruppen

Computer Science Library

• Literature for current lectures
• Seminars for literature research
• Where: Informatik Zentrum, E1, Ground floor

Computer Lab Informatik

• Computer lab for students
• Helpdesk, Installations-Support
• Where: Informatik Zentrum, E1 & E2, Basement
Institutions

Main library
- www.bth.rwth-aachen.de
- Where: Templergraben 61

Textbook collection (Lehrbuchsammlung)
- Commonly used course literature (multiple copies)
- www.bth.rwth-aachen.de/lbs.html
- Where: Wüllnerstr. 3
Study Advisor Master Informatik

- Jera Hensel, Informatik 2
- E-mail: master@informatik.rwth-aachen.de
- Consultation hour: Mondays 12:30 - 1:30 p.m.