Introductory Meeting Master of Computer Science (Winter Semester 2020/21)
Research Areas

Algorithmics

Complexity Theory
Algorithmic Geometry
Discrete Mathematics
Cryptography
etc.

Graphics, Vision, Audio

Image Processing
Computer Vision
Computer Graphics
Signal Processing
Computer Animation
etc.

Information and Communication Management

Information Systems
Software Technology
Computer Networks
Communication Systems
Distributed Systems
etc.

Intelligent Systems

Artificial Intelligence
Robotics
Neural Networks
Machine Learning
Knowledge Discovery
etc.
Examination Rules M.Sc. Computer Science

Where to find?

Examination rules, Article 4, section 4:

Requirement: 120 CP in total

- **Focus Area:** 31 – 61 CP, 1 seminar (4-6 CP), 1 lab (9 CP)
- **Other Areas:** at least two with at least 6 CP each
- Please limit yourself to 1-2 labs and 1-2 seminars globally
- **Master Thesis:** 30 CP + 2 CP from accompanying seminar

-> no compulsory modules, choose freely from course catalog
Three suggestions for structuring your studies

**Sample Study Plan I:**
General approach: *all four research areas covered*

<table>
<thead>
<tr>
<th>1st</th>
<th>2nd</th>
<th>3rd</th>
<th>4th</th>
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</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>Lecture</td>
<td>Lecture</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>(Research Area A)</td>
<td>(Research Area B)</td>
<td>(Research Area C)</td>
<td>with accompanying seminar</td>
</tr>
<tr>
<td>Seminar</td>
<td>Lecture</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>(Course Emphasis)</td>
<td>(Course Emphasis)</td>
<td>(Research Area C)</td>
<td></td>
</tr>
<tr>
<td>Lab</td>
<td>Lecture</td>
<td>Lecture</td>
<td></td>
</tr>
<tr>
<td>(Course Emphasis)</td>
<td>(Research Area B)</td>
<td>(Research Area B)</td>
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<tr>
<td></td>
<td>Lecture</td>
<td>Lecture</td>
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<td></td>
<td>(Research Area D)</td>
<td>(Research Area D)</td>
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</tbody>
</table>
Sample Study Plan II:
Specializing approach: *three areas covered, focus on one area*

<table>
<thead>
<tr>
<th>1.</th>
<th>Lecture (Research Area A)</th>
<th>Lecture (Research Area A)</th>
<th>Lecture (Research Area B)</th>
<th>Lecture (Research Area C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Seminar (Course Emphasis)</td>
<td>Lec./Sem./Lab. (Course Emphasis)</td>
<td>Lecture (Course Emphasis)</td>
<td>Lecture (Research Area B)</td>
</tr>
<tr>
<td>3.</td>
<td>Lab (Course Emphasis)</td>
<td>Lec./Sem./Lab (Course Emphasis)</td>
<td>Lecture (Course Emphasis)</td>
<td>Lecture (Course Emphasis)</td>
</tr>
<tr>
<td>4.</td>
<td>Master’s Thesis</td>
<td>with accompanying seminar</td>
<td></td>
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</tbody>
</table>
Sample Study Plan III:  
Hybrid: *three areas covered, focus on two areas*

<table>
<thead>
<tr>
<th></th>
<th>Lecture (Research Area A)</th>
<th>Lecture (Research Area A)</th>
<th>Lecture (Research Area B)</th>
<th>Lecture (Research Area B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td></td>
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</tr>
<tr>
<td>2</td>
<td>Lab (Course Emphasis)</td>
<td>Lecture (Course Emphasis)</td>
<td>Lecture (Research Area B)</td>
<td>Lecture (Research Area C)</td>
</tr>
<tr>
<td>3</td>
<td>Seminar (Course Emphasis)</td>
<td>Lab (Course Emphasis)</td>
<td>Lecture (Course Emphasis)</td>
<td>Lecture (Research Area B)</td>
</tr>
<tr>
<td>4</td>
<td>Master’s Thesis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How does Corona affect our courses?

- University: „hybrid“ mode of operation
- Computer Science: online lectures and exercises
- Some labs may take place on site.
- **Exams?** Some modules may have on-site exams, e.g. MA-INF 1103, 1104, 2111, 2113, 4111, 4113, and 4303.
- No general rules about courses and exams; ask your professor or supervisor.
- **No reliable information beyond 31 December.**
- The Computer Science Building is closed!
What to do in your first semester?

Look at the course overview in BASIS, available at https://basis.uni-bonn.de
For more information, crossreference available courses with the module handbook.

Module numbers MA-INF ASXY have been assigned according to the following key:
• $A =$ number of the area of research
• $S =$ approximate semester (1st-3rd) within the master’s curriculum
• $XY =$ sequential number within the semester and area of competence (two digits)

Lectures, seminars, and labs ought to be taken between the 1st and 3rd semester. The 4th semester is reserved for preparing the master’s thesis.

Examples
MA-INF 2111 - Foundations of Graphics
MA-INF 2312 - Image Acquisition and Analysis in Neuroscience
MA-INF 4111 - Intelligent Learning and Analysis Systems: Machine Learning
MA-INF 4113 - Cognitive Robotics
Continued: What to do in your first semester?

In your **first semester**, you should start with the first or second semester lectures. Please note that most introductory (or first semester) lectures are only offered in winter semester.

**Please be aware that**

- lecture modules consist of the **lecture itself plus exercise groups**
- you will be told how to choose your exercise group in the lecture
- you should take your time during the **first two weeks of the semester** to attend all the modules you are interested in and then choose enough modules to cover 30 ECTS (e.g. $2 \times 9 + 2 \times 6, 5 \times 6$, etc)

=> good planning and looking ahead is important to stay in the recommended study length of four semesters
Registration for our Master’s Program:

Registration for our Master’s Program is via post. Without this registration, you cannot register for exams. For registration, please send all the following documents to us:

- passport
- final student id
- attached form (filled-in)
- bachelors degree certificate (copy)
- TOEFL or IELTS result (copy)

Please note: registration will only be possible if you send us ALL necessary documents, which includes the final student id. Copies need to be made by yourself!

Deadline: 20th November 2020
Registration for lecture exams, seminars and labs

Each module is concluded with an exam. You have to register for each exam in advance, including labs and seminars.

- **Registration in BASIS**: [https://basis.uni-bonn.de](https://basis.uni-bonn.de)
- **Tutorial**: [https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/](https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/)
- **Info on registration deadlines**: [https://www.informatik.uni-bonn.de/en/for-students](https://www.informatik.uni-bonn.de/en/for-students)

**Examination Office**

- our exams office is located on the ground floor, room 0.024
- person in charge: Mrs. Judith König
- for office hours (by phone) and additional info see: [https://www.informatik.uni-bonn.de/en/for-students/examination-office](https://www.informatik.uni-bonn.de/en/for-students/examination-office)
Questions on BASIS (exam registration only):

• **technical questions** on exam registration via BASIS need to be directed to Dr. Stefan Lüttringhaus-Kappel by email to pos@informatik.uni-bonn.de
• office hours (right column):

  [https://www.informatik.uni-bonn.de/en/for-students/general-information](https://www.informatik.uni-bonn.de/en/for-students/general-information)

**Study Advisory Service**

• study advisor Dr. Matthias Frank
• service open to all students of computer science
• help on study-related problems
• further info plus contact details:
  [https://www.informatik.uni-bonn.de/en/for-students/student-advisory-service](https://www.informatik.uni-bonn.de/en/for-students/student-advisory-service)
Checklist: What to do in your first semester?

(0. Register at city hall with their form and the Wohnungsgeberbestätigung.)

1. Enroll at Studierendensekretariat with your admission letter.

2. Activate your Uni-ID with the details from your study documentation (blue sheet, end of top paragraph).

3. Set up email forwarding or collection of your university email address.
   Guide: https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/uni-id-und-e-mail-adresse


5. Obtain a Mensa-Card at the Café to the right of the Mensa entrance.

6. Register at our institute ("Masterregistrierung") until 20th November 2020
Who to contact?

Examination Office
Legal matters, Ausländeramt forms, sick notes for exams, etc.

Bachelor-Master-Office
General questions, basis support

Study Advisory Office
Study-related questions

Please contact professors/tutors directly for lecture-specific questions.
Institute‘s Campus

Endenicher Allee 19a, 53115 Bonn

The institute building will remain closed for the time being.

- Computer Science Departments I-VI
- Examination Office
- Bachelor-Master Office
- IT Support
- CIP (computer) pools
- Student Union / Fachschaft
- Lecture Center / Hörsaalzentrum
Important pages on Informatik-Website at a glance:

- WiFi via Eduroam: https://www.hrz.uni-bonn.de/en/services/mobile-devices
- Contact details of institute's members: https://www.informatik.uni-bonn.de/en/institute/members
- Student union / Fachschaft: https://www.fachschaft.info/en
- IT-services: https://www.informatik.uni-bonn.de/en/institute/it-services
- For students: https://www.informatik.uni-bonn.de/en/for-students/general-information
- Job offers: https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science/information-for-current-students
- Scholarships: https://www.informatik.uni-bonn.de/en/for-students/scholarships-and-grants
- Study abroad: https://www.informatik.uni-bonn.de/en/for-students/the-erasmus-exchange-program
- Learning German: https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science/learning-german-in-bonn
Extra-curricular activities:

• **Free German classes** offered by International Office (first-minute registration necessary):
  
  [https://www.uni-bonn.de/studying/international-students/german](https://www.uni-bonn.de/studying/international-students/german)

• **Tandem-Program (in German, use a translating service):**
  
  [https://www.ikm.uni-bonn.de/sprachlernzentrum/begleitetes-autonomes-fremdsprachenlernen/tandem](https://www.ikm.uni-bonn.de/sprachlernzentrum/begleitetes-autonomes-fremdsprachenlernen/tandem)

• **Counseling and Service by International Office:**
  
  [https://www.uni-bonn.de/studying/international-students/counseling-and-service](https://www.uni-bonn.de/studying/international-students/counseling-and-service)

• **Counseling and Service by AStA:**
  
  [http://www.asta-bonn.de/Consultations](http://www.asta-bonn.de/Consultations)

• **University Sports Activities** (Hochschulsport):
  
  [http://www.sport.uni-bonn.de/](http://www.sport.uni-bonn.de/)

• **Studium Universale:**
  
  [http://www3.uni-bonn.de/studium/studium-universale](http://www3.uni-bonn.de/studium/studium-universale)
Last, but not least…

• Please note that the office hours of the Bachelor-Master-Office are cancelled until further notice!

• If you have a question related to your studies, please get an official answer from the exams office.

• Do not rely on rumours, they might be wrong.

• A lot of information at our university is only published in German. If you don‘t understand it, please use an electronic translation service to get a general idea, then contact the person in charge mentioned on the respective webpage. Many university employees speak enough English to communicate with you.
Thank you for your attention!