Introductory Meeting Master of Computer Science
(Winter Semester 2021)
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*

*For any of these or any other study plans: You are not allowed to have more than 61 CP in any area.*

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

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

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<td>1</td>
<td>(Research Area A)</td>
<td>(Research Area A)</td>
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<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>
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<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>with accompanying seminar</td>
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How does Corona affect our courses?

- University: mainly hybrid form of operation, smaller classes in person, most lectures online
- Computer Science: hybrid mode, you can find the mode of operation for each lecture/class online on basis (not 100% guaranteed)
- Exams? Some or many modules may have on-site exams, tbd.
- No general rules about courses and exams; ask your professor or supervisor.
- Changes in the mode of operation are possible because the university has to stick to governmental rules regarding the COVID-19 pandemic.
- To enter the Computer Science building you need a proof of vaccination OR a negative test result OR a proof that you are recovered from COVID-19 according to the university rules
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 1104 - Advanced Algorithms
MA- INF 2111 - Foundations of Graphics
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 introductory lectures. Please note that the majority of the 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 \cdot 9 + 2 \cdot 6, or 5 \cdot 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!

All relevant information can be found here: [https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/registering-for-the-master-program](https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/registering-for-the-master-program)

 Deadline: 20th November 2021
Checklist: What to do at the beginning of 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 account 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](https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/uni-id-und-e-mail-adresse)

Please note that only a limited amount of memory is available for your received e-mails.


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

6. Register at our institute (“Masterregistrierung”) until 20th November 2021
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
- Tutorial: 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

Examination Office

- our exams office is located on the ground floor, room 0.024
- person in charge: Ms. Judith König
- for office hours (by phone) and additional info see: 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/

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
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 / Informatik-Zentrum

The building is at Friedrich-Hirzebruch-Allee 8, 53115 Bonn.

Postal address:
  Institut für Informatik
  Friedrich-Hirzebruch-Allee 5
  53115 Bonn
  Germany

In the Informatik-Zentrum:
  - Computer Science Departments I-VI
  - Examination Office
  - Bachelor-Master Office
  - IT Support
  - CIP (computer) pools
  - Student Body / Fachschaft
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 Body / Fachschaft:
https://www.fachschaft.info/en

IT-services:
https://www.informatik.uni-bonn.de/en/institute/it-services

Official Infos 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:

Our Institute’s Facebook Page:
Extra-curricular activities:

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

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

- **Counseling and Service by International Office:**
  https://www.uni-bonn.de/en/university/organisation-and-institutions/university-administration/international-office/international-office

- **Counseling and Service by AStA:**
  http://www.asta-bonn.de/Consultations

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

- **Studium Universale:**
  https://www.uni-bonn.de/en/studying/degree-programs/more/life-long-learning-university
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!