Introductory Meeting: Master of Computer Science
Course of Studies and Examination Regulations

Dr. Stefan Lüttringhaus-Kappel

Institut für Informatik
Universität Bonn

October 2022
Contents

1 Research Areas
2 Examination Rules
3 Course of Studies
4 What to do in your first semester
5 Getting Help
6 Summary
Warning

- These slides contain non-binding information only.
- The examination regulations (in the German version) are the sole binding source.
Four Research Areas

1. Algorithmics
2. Graphics, Vision, Audio
3. Information and Communication Management
4. Intelligent Systems
Research Areas

Algorithmics

- Complexity Theory
- Algorithmic Geometry
- Discrete Mathematics
- Cryptography
- etc.
Research Areas

Graphics, Vision, Audio

- Image Processing
- Computer Vision
- Computer Graphics
- Computer Animation
- Digital Material Appearance
- Signal Processing
- etc.
Research Areas

Information and Communication Management

- IT Security
- Information Systems
- Software Technology
- Computer Networks
- Communication Systems
- Distributed Systems
- etc.
Research Areas

Intelligent Systems

- Artificial Intelligence
- Robotics
- Neural Networks
- Machine Learning
- Knowledge Discovery
- etc.
Examination Rules

Find our examination rules and additional information:
Examination Rules
Structure of the Master's Program

Overall Requirements

• Total credits: **120 CP** (up to 128 CP is acceptable).
• You cannot take more than two seminars (not counting the accompanying seminar) or more than two labs.
• The remainder of your credits comes from lecture modules, the master thesis (30 CP), and the accompanying seminar (the “defense”, 2 CP).
Examination Rules
Structure of the Master's Program

Overall Requirements

• Total credits: **120 CP** (up to 128 CP is acceptable).
• You cannot take more than two seminars (not counting the accompanying seminar) or more than two labs.
• The remainder of your credits comes from lecture modules, the master thesis (30 CP), and the accompanying seminar (the “defense”, 2 CP).

Focus Area

• You choose your **focus area** from the four areas.
• At least **31 CP** and no more than **61 CP** must be earned in the focus area.
• You must pass at least one seminar and at least one lab from the focus area.
Examination Rules

Registration for the Master’s Program

- Without this registration, you cannot register for exams.
- Registration for our Master’s Program is via post (paper mail).
- Please find the details here:
  https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis/registering-for-the-master-program
- Deadline: **20th November**, but please register as soon as possible.
Examination Rules

Registering for Exams

- 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

Deadlines and Help

- Info on registration deadlines:
  https://www.informatik.uni-bonn.de/en/for-students
- Technical questions on exam registration via BASIS:
  pos@informatik.uni-bonn.de
Examination Rules
Attempts and Exam Dates

Lecture Modules

• There are two examination dates in each semester in which the module takes place.
• You can only register for the first date!
• First date: success ⇒ the module is passed.
  failed ⇒ automatic registration for the second date.
• Second date: success ⇒ the module is passed.
  failed ⇒ one failed attempt (out of three).
• You can only deregister up to 7 days before the first exam.
• The deregistration is effective for both dates!
Examination Rules
Attempts and Exam Dates

Lecture Modules

• There are two examination dates in each semester in which the module takes place.
• You can only register for the first date!
• First date: success \( \Rightarrow \) the module is passed.
  failed \( \Rightarrow \) automatic registration for the second date.
• Second date: success \( \Rightarrow \) the module is passed.
  failed \( \Rightarrow \) one failed attempt (out of three).
• You can only deregister up to 7 days before the first exam.
• The deregistration is effective for both dates!

Seminar and Lab Modules

• There is only one exam date for seminars and labs.
• You cannot deregister from the exam after the registration deadline.
General approach: all four research areas covered

<table>
<thead>
<tr>
<th>Area</th>
<th>Lectures</th>
<th>Seminar(s)</th>
<th>Lab(s)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>30 CP</td>
<td>4 CP</td>
<td>9 CP</td>
<td>43 CP</td>
</tr>
<tr>
<td>B</td>
<td>12 CP</td>
<td></td>
<td></td>
<td>12 CP</td>
</tr>
<tr>
<td>C</td>
<td>18 CP</td>
<td>4 CP</td>
<td></td>
<td>22 CP</td>
</tr>
<tr>
<td>D</td>
<td>12 CP</td>
<td></td>
<td></td>
<td>12 CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thesis &amp; Defense</td>
<td></td>
<td></td>
<td></td>
<td>32 CP</td>
</tr>
<tr>
<td>Overall credits</td>
<td></td>
<td></td>
<td></td>
<td>121 CP</td>
</tr>
</tbody>
</table>

Credits in the focus area are set in **bold face**.
Specializing approach: three areas covered, focus on one area

<table>
<thead>
<tr>
<th>Area</th>
<th>Lectures</th>
<th>Seminar(s)</th>
<th>Lab(s)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>21 CP</td>
<td></td>
<td></td>
<td>21 CP</td>
</tr>
<tr>
<td>B</td>
<td>48 CP</td>
<td>4 CP</td>
<td>9 CP</td>
<td>61 CP</td>
</tr>
<tr>
<td>C</td>
<td>6 CP</td>
<td></td>
<td></td>
<td>6 CP</td>
</tr>
</tbody>
</table>

Thesis & Defense 32 CP

Overall credits 120 CP

Credits in the focus area are set in **bold face**.
Hybrid approach: three areas covered, focus on two areas

<table>
<thead>
<tr>
<th>Area</th>
<th>Lectures</th>
<th>Seminar(s)</th>
<th>Lab(s)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>30 CP</td>
<td></td>
<td>9 CP</td>
<td>39 CP</td>
</tr>
<tr>
<td>B</td>
<td>12 CP</td>
<td></td>
<td></td>
<td>12 CP</td>
</tr>
<tr>
<td>C</td>
<td>24 CP</td>
<td>8 CP</td>
<td>9 CP</td>
<td>41 CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thesis &amp; Defense</td>
<td></td>
<td>32 CP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Overall credits</td>
<td></td>
<td>124 CP</td>
</tr>
</tbody>
</table>

Credits in the focus area are set in **bold face**.
What to Do in Your First Semester

Activate your Uni-ID and set up your email

- Activate your Uni-ID with the details from your study documentation (blue sheet, end of top paragraph).
- Set up the 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
- Please note that only a limited amount of memory is available for your received e-mails.

Registration for our Master‘s Program

- see above
What to Do in Your First Semester

The Course Catalog

- [https://basis.uni-bonn.de](https://basis.uni-bonn.de)
- Cross-reference available courses with the module handbook.

Module Numbers

- Key to module numbers like **MA-INF ASXY**:
  - A number of the area of research
  - S approximate semester (1st-3rd)
  - XY sequential number within the area and semester

Module Examples

- MA-INF 1105 – Algorithms for Data Analysis
- MA-INF 2221 – Seminar Visual Computing
- MA-INF 4304 – Lab Cognitive Robotics

The 4th semester is reserved for preparing the master’s thesis.
What to Do in Your First Semester

Selecting Modules

- 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.
- Good planning and looking ahead is important to stay in the recommended study length of four semesters.
- You should earn around 30 CP per semester.

Lectures and Exercises

- Lecture modules consist of the lecture itself plus exercise groups.
- You will be told how to choose your exercise group in the lecture. Also which additional coursework is required.
Who to Contact?

Examination Office
- Legal matters
- Foreign Office (Ausländeramt) forms
- Sick notes for exams, etc.

Bachelor and Master Office
- General questions
- Basis support

Study Advisory Office
- Study-related problems and questions

Lectures, Seminars, Labs
- Please contact professors/tutors directly for lecture-specific questions.
The Examination Office

Contact

• Judith König
• pa@informatik.uni-bonn.de
• Phone: +49 228 73 4418
• Office hours and further information:
  https://www.informatik.uni-bonn.de/en/for-students/examination-office
The Bachelor and Master Office

Contact

- Dr. Stefan Lüttringhaus-Kappel
- Phone: +49 228 73 4536
- Email for general questions: servicebuero@informatik.uni-bonn.de
- E-mail for technical questions on Basis (exam management): pos@informatik.uni-bonn.de
- Office hours and further information: https://www.informatik.uni-bonn.de/en/for-students/bachelor-and-masteroffice
The Study Advisory Office

Contact

- Dr. Matthias Frank
- [https://www.informatik.uni-bonn.de/en/for-students/student-advisory-service](https://www.informatik.uni-bonn.de/en/for-students/student-advisory-service)
- Phone: +49 228 73 4550
- Further information: [https://net.cs.uni-bonn.de/de/admin/studienberatung/studienberatung-informatik](https://net.cs.uni-bonn.de/de/admin/studienberatung/studienberatung-informatik)
Summary

The Most Important Points

• Make sure your university email works!
• Read all of this thoroughly and carefully: Registering Exams in BASIS
  https://www.informatik.uni-bonn.de/en/for-students/registering-exams-in-basis
• Visit the lectures! There you will learn how the module works, e. g. how to join an exercise group and which coursework is required.

Further Information

• Visit our Homepage
  https://www.informatik.uni-bonn.de/en/for-students