

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

Dr. Stefan Lüttringhaus-Kappel

Institut für Informatik
Universität Bonn

8 November 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

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:

[https://www.informatik.uni-bonn.de/en/for-students/
master-of-science-in-computer-science/
regulations-and-forms](https://www.informatik.uni-bonn.de/en/for-students/master-of-science-in-computer-science/regulations-and-forms)

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).
- **Three areas covered** — 6 CP or more in at least three areas

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).
- **Three areas covered** — 6 CP or more in at least three areas

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>
- The **only** exceptions: Registration for master thesis and master seminar is not done on Basis, but the supervisor takes care of it.

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 exam 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!

Examination Rules

Attempts and Exam Dates

Lecture Modules

- There are two exam 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.

Course of Studies

Sample Study Plans

General approach: all four research areas covered

Area	Lectures	Seminar(s)	Lab(s)	Total
A	30 CP	4 CP	9 CP	43 CP
B	12 CP			12 CP
C	18 CP	4 CP		22 CP
D	12 CP			12 CP
		Thesis & Defense		32 CP
		Overall credits		<u>121 CP</u>

Credits in the focus area are set in **bold face**.

Course of Studies

Sample Study Plans

Specializing approach: three areas covered, focus on one area

Area	Lectures	Seminar(s)	Lab(s)	Total
A	21 CP			21 CP
B	48 CP	4 CP	9 CP	61 CP
C	6 CP			6 CP
		Thesis & Defense		32 CP
		Overall credits		<u>120 CP</u>

Credits in the focus area are set in **bold face**.

Course of Studies

Sample Study Plans

Hybrid approach: three areas covered, focus on two areas

Area	Lectures	Seminar(s)	Lab(s)	Total
A	30 CP		9 CP	39 CP
B	12 CP			12 CP
C	24 CP	8 CP	9 CP	41 CP
		Thesis & Defense		32 CP
		Overall credits		124 CP

Credits in the focus area are set in **bold face**.

Course of Studies

Sequence of Courses in the Focus Area

Your way to success in four semesters (only focus area shown):

- ① One or more **lectures**
- ② **Seminar**, one or more lectures
- ③ **Lab**, maybe additional lecture(s)
- ④ **Master thesis** and **master seminar** (“defense”)

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>
- 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>
- Phone: +49 228 73 4550
- Further information:
<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`