



UNIVERSITÄT

BONN

Master's Program in Mathematics

Important Organisational Information





Welcome to Bonn!



Probability
and Stochastic
Analysis

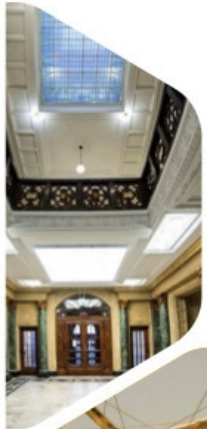
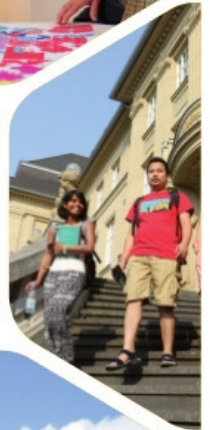
Numerics
and Scientific
Computing



Algebra,
Number Theory
and Logic



Discrete
Mathematics



Geometry
and
Topology

Analysis and
Differential
Equations



Welcome to Bonn!

For all affairs concerning the study organisation,
please contact the Bachelor-Master-Office

[**bama@math.uni-bonn.de**](mailto:bama@math.uni-bonn.de)





UNIVERSITÄT **BONN**

Our Master's Program in Mathematics



Outline

- Sources of Information
- Mathematics in Bonn
- Module Types
- Study Planning
- Offers for Beginners
- Examination Affairs
- Semester Calendar





Sources of Information – Website

You can find most of the information given in this presentation in the internet on

<https://www.mathematics.uni-bonn.de/studium/en/study-programs/master-program-mathematics>

UNIVERSITÄT BONN ENGLISH EN DE

UNIVERSITÄT BONN MATHEMATICS

PROSPECTIVE STUDENTS STUDY PROGRAMS STUDY ORGANIZATION STUDY ABROAD CONTACT

STUDYING MATHEMATICS IN BONN / STUDY PROGRAMS / MASTER'S PROGRAM MATHEMATICS

MASTER MATHEMATICS

Master's Program Mathematics - Profile

The Master's degree program in Mathematics at the University of Bonn is internationally oriented and has a research-oriented profile. It is designed for 2 years (4 semesters) and can be started either in the winter semester (in October) or in the summer semester (in April). The language of instruction is English.

Students benefit from the international and high-ranking staff of the Mathematics Department in Bonn. All important mathematical fields are represented here, from the classical core areas of pure and applied mathematics to mathematical methods in the development of new technologies.

The Study Areas of Bonn Mathematics

Sources of Information – E-Mail

Upon registration at the University, you were given a **@uni-bonn.de** e-mail account.

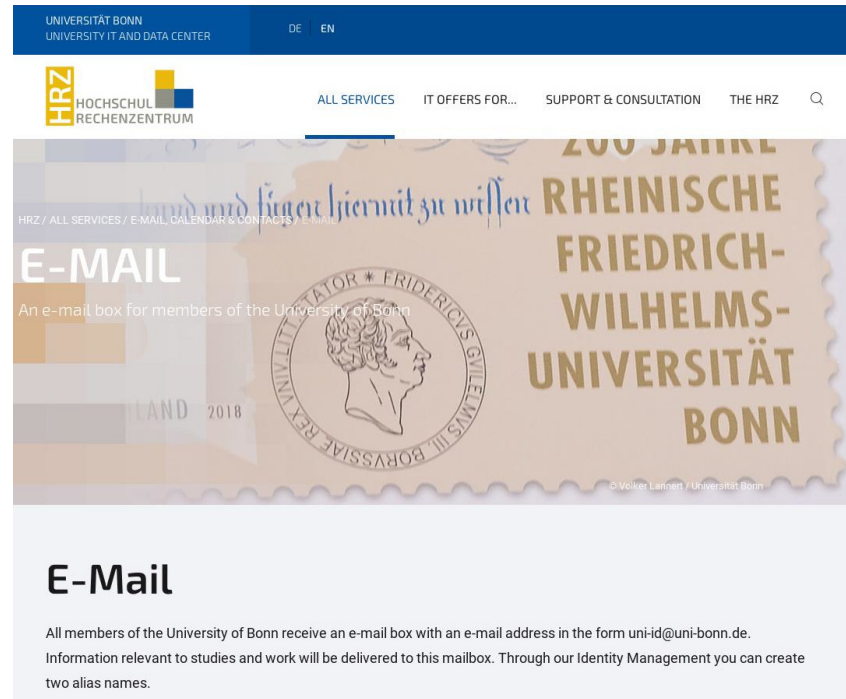
Throughout your studies, we will regularly send out **information mails** to this address (e.g. notifying you of important regulations, deadlines and events).

These messages are sent out **only** to the @uni-bonn.de e-mail accounts.

Sources of Information – E-Mail

So please **check your @uni-bonn** account **regularly** and make sure its quota is not exceeded.

Forwarding to
an external
e-mail account
is **not** possible!



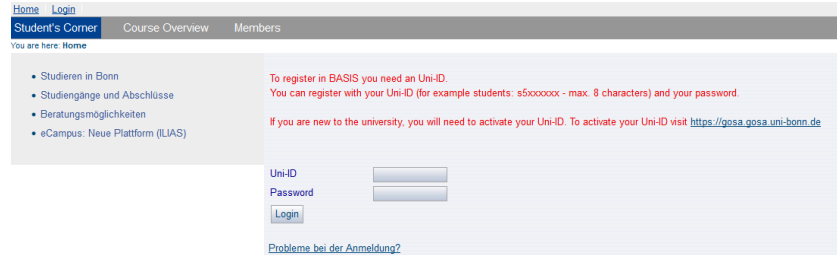
The screenshot shows the HRZ (Hochschulrechenzentrum) website. The header includes the University of Bonn logo and navigation links for 'ALL SERVICES', 'IT OFFERS FOR...', 'SUPPORT & CONSULTATION', and 'THE HRZ'. The main content area features a large graphic with the text 'E-MAIL' and 'An e-mail box for members of the University of Bonn'. Below this, there is a section titled 'E-Mail' with the following text: 'All members of the University of Bonn receive an e-mail box with an e-mail address in the form uni-id@uni-bonn.de. Information relevant to studies and work will be delivered to this mailbox. Through our Identity Management you can create two alias names.'

Sources of Information – BASIS

The website

<https://basis.uni-bonn.de>

has several functions:



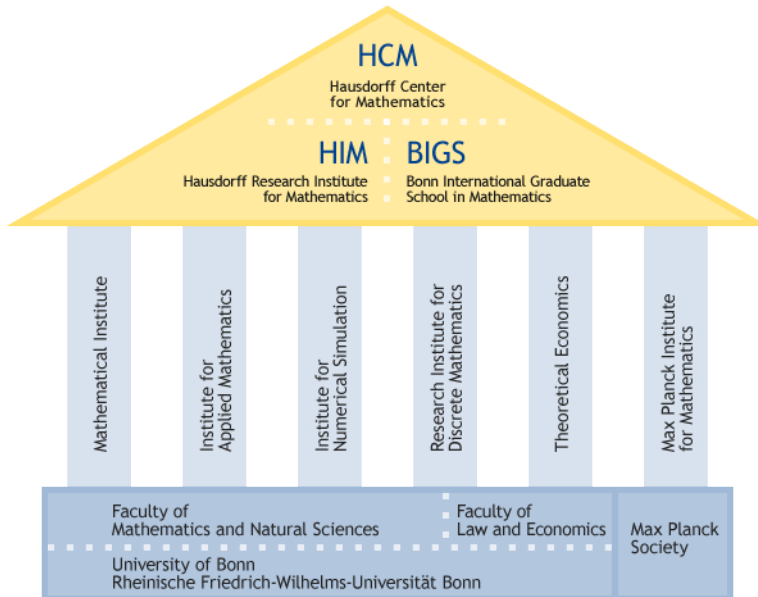
1. It contains the **course overview** for each semester.
2. It contains the link to the **eCampus** course of a lecture or seminar, if available.
3. If you use your @uni-bonn.de login, you can
 - register for **exams**,
 - access and download your current **transcript of records**.

Mathematics in Bonn



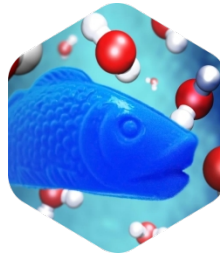
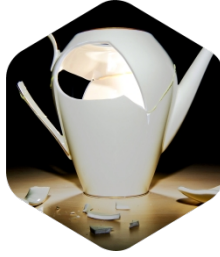
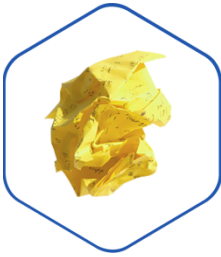
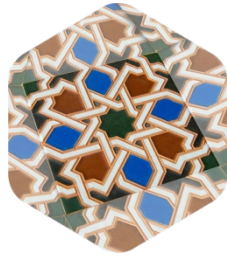
The University of Bonn has **four mathematical institutes**:

- Mathematical Institute (MI) [pure mathematics]
- Institute for Applied Mathematics (IAM)
- Research Institute for Discrete Mathematics (DM)
- Institute for Numerical Simulation (INS)



All institutes collaborate in offering our Bachelor, Master and PhD studies.

They participate in the **Hausdorff Center for Mathematics** (HCM, Cluster of Excellence) which is also home to the **Hausdorff Research Institute for Mathematics** (HIM).



Areas

- A Algebra, Number Theory, and Logic
- B) Analysis and Differential Equations
- C) Discrete Mathematics
- D) Geometry and Topology
- E) Numerical Mathematics and Scientific Computing
- F) Probability and Stochastic Analysis

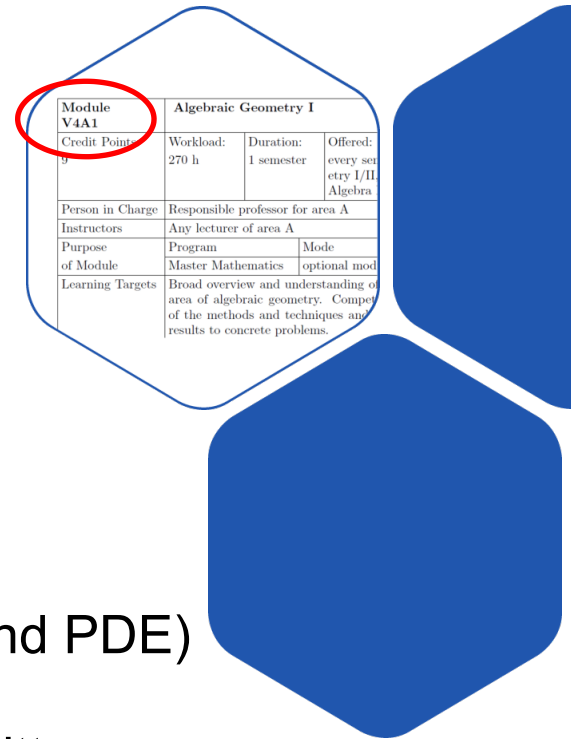
From each area, there are various kinds of modules offered in the Master's program.



Lecture Modules

- **Foundation** lecture course (4 h/week) with problem sessions (2 h/week), **9 CP**
May be held in German!
- **Graduate** lecture course (4 h/week) with problem sessions (2 h/week), **9 CP**
- **Advanced topics** lecture course (4 h/week) without problem sessions, **7 CP**
- **Selected topics** lecture course (2 h/week) without problem sessions, **5 CP**





Lecture Modules

- Module code: **V/F-year-area-#**, e.g. **V4A1** (Algebraic Geometry I) or **F4B1** (Foundation in Analysis and PDE)
- The module examination can be a written or an oral exam.
- Exams take place at the end of the lecture period.
- Upon failing, a compulsory retry is scheduled at the end of the term.



Graduate Seminar Modules

- Always **6** CP
- Module code: **S-year-area-#**,
e.g. **S4D1** (Graduate Seminar on
Differential Geometry)
- In a seminar the students present the
mathematics.
- Normally, every student gives a
90-minute-talk on a small part of
the material presented in the
seminar.



Graduate Seminar Modules

- The professor or one of the assistants can help with the preparation of the talk.
- The seminar talk will be **graded** as the exam.
- Normally, there is a preparatory meeting for every seminar at the end of the previous semester.
- **If you are interested in doing a seminar in this semester you should contact the professor as soon as possible!**

Practical Training Course Modules

Various practical training courses of **9** CP are also offered as **optional modules** in the program:

- Practical Teaching Course
- External Internship
- Programming Labs

Practical Project in Mathematical Logic

Combinatorial Algorithms / Algorithms for Chip Design

Practical Lab Numerical Simulation /

Practical Lab Advanced Scientific Computing

Practical Lab Mathematical Biology and Data Science

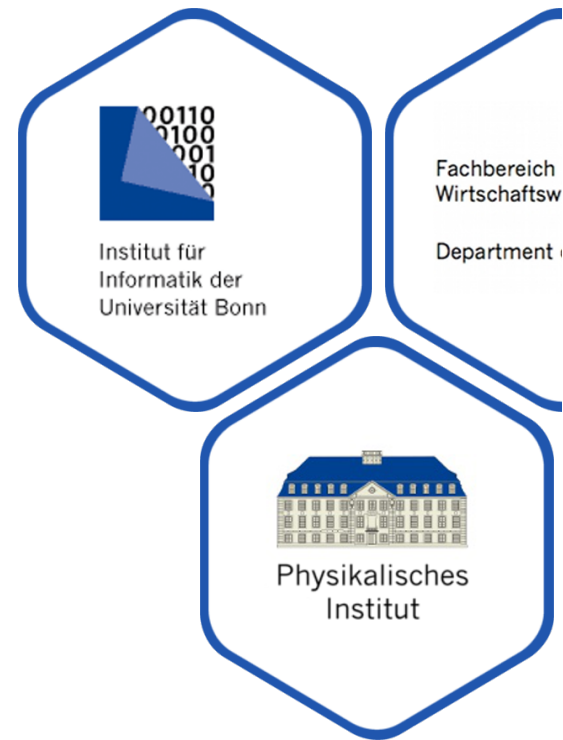


Secondary Subject

If you are interested in picking up a secondary subject

- Physics
- Economics
- Computer Science
- ...

please contact the **Bachelor-Master Office Mathematics**.





Study Planning

| | Major (Area I) | | | Minor (Area II) | Minor (Area III) | Options |
|---|----------------------------|--------------------------------------|--------------------------------|--|-----------------------|--|
| 1 | Graduate Courses (0-36 CP) | Foundation or Graduate Course (9 CP) | Graduate Seminar (6 CP) | Foundation or Graduate Course (0-9 CP) | Graduate Course (9CP) | Complementary courses or seminars Practical training courses Courses in a secondary subject (0-24/27 CP) |
| 2 | | Graduate Course (9 CP) | | | | |
| 3 | | Master's Thesis (30 CP) | Master's Thesis Seminar (6 CP) | | | |
| 4 | | | | | | |

- **You yourself are in charge of your studies.**
- You need to select courses yourself and make sure all requirements for the Master's degree are met.
-
- Help and support can be found in several ways...



Offers for Beginners: Student Mentoring

We offer an individual **student mentoring** for beginners. An experienced student will meet with you (in person or online) and talk about questions such as:

- How to get started in the program?
- Are there any particularities about the Master's program in Bonn I should be aware of?
- Where can I find suitable literature?
- Where can I find help if I have subject-related problems?
- What can I do if I feel overwhelmed, when there is hardly any free time left?
- What places should I know in Bonn for leisure time outside of Mathematics?



If you are interested please send an e-mail with your name to hcm.mentorinnen@ins.uni-bonn.de.



Program for Beginners: Academic Mentoring

Upon admission to the Master's program you are assigned to a **professor** of your indicated **major** area as your **mentor**. Your mentor will help you to design your optimal study plan and will answer your **academic** questions.

- Within the following days each of the mentors will have a **joint** introductory meeting with all their mentees.
- At the end of your first semester, you will have an **individual** counselling talk with your mentor.

This mentoring program is **obligatory**.





Mentors A to C

Introductory meetings of the mentors:

A. Prof. Philipp Hieronymi

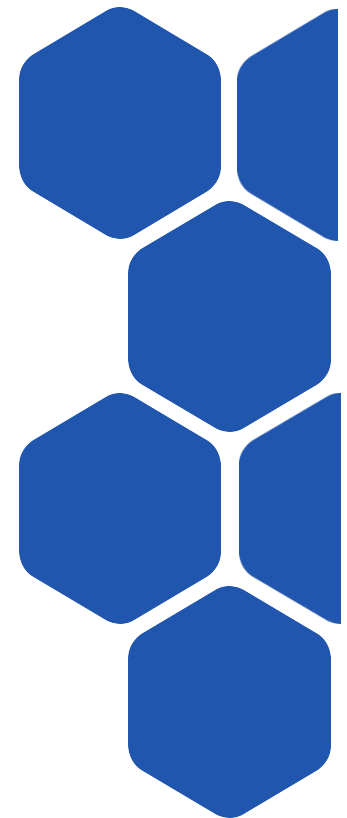
Wed 10 Apr. 9:30 a.m., MZ 4.005

B. Prof. Juan Velázquez

Thu 11 Apr. 2:00 p.m., MZ 2.025

C. Prof. Stephan Held

Tue 9 Apr. 1:45 p.m.,
Lecture hall Arithmeum (Lennéstr. 2)





Mentors D to F

Introductory meetings of the mentors:

D. Prof. Stefan Schwede

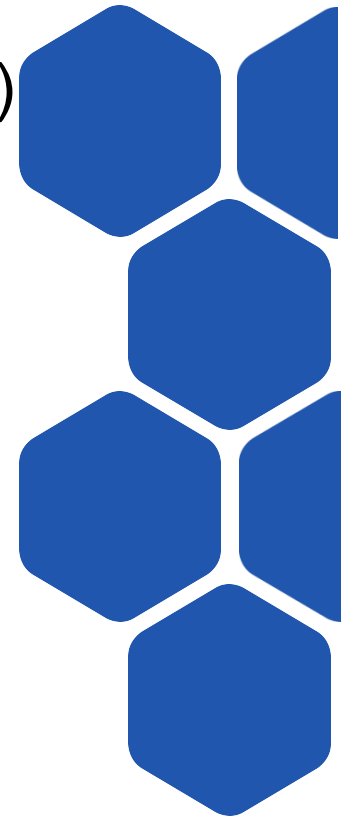
Wed 10 Apr. 2:15 p.m., MZ N.008 (annexe)

E. Prof. Carsten Burstedde

Thu 11 Apr. 5:00 p.m.,
INS 2.036 (Friedrich-Hirzebruch-Allee 7)

F. Prof. Andreas Eberle

Wed 10 Apr. 12:45 p.m., MZ 4.049





How to Find Your Mentor on BASIS

UNIVERSITÄT **BONN**

[Home](#) | [Logout](#) | Your last login 16.09. | Ms. Hildegard Gebertz | You are logged in as: gebertzlsf | acting as: Employee

[Help](#) | [Imprint and privacy](#) | [Privacy Notice](#) |

My Functions | [Course Overview](#) | [Exam management](#) | [Departments](#) | [Facilities](#) | [Persons](#)

You are here: [Home](#) → [Information on registered examinations](#)

Information on registered examinations

- iTAN Management
- Examination registration and withdrawal
- Booking of Grades
- Consulting for studying (Dean)
- **Information on registered examinations**
- Listen für eKlausuren
- Change Password
- Hide menu

Stammdaten des Studierenden

| | |
|--------------------------------|------------------------|
| Student's Name | |
| Date and Place of Birth | |
| Degree Program | [45] Master of Science |
| Matriculation Number | |
| Address | |
| Telefonnummer | |
| E-Mail-Adresse | |

Degree: Master of Science Courses of Studies: Mathematics

| Code | Title | Examiner | Semester | announcement date | Date of Exam | Listener |
|-----------|-----------|---------------|-------------------|-------------------|--------------|----------|
| 611601107 | Mentoring | Blomer | Winter term 21/22 | 25.08.2021 | 31.03.2022 | |

Selection

Who Can Help with Your Study Plan?

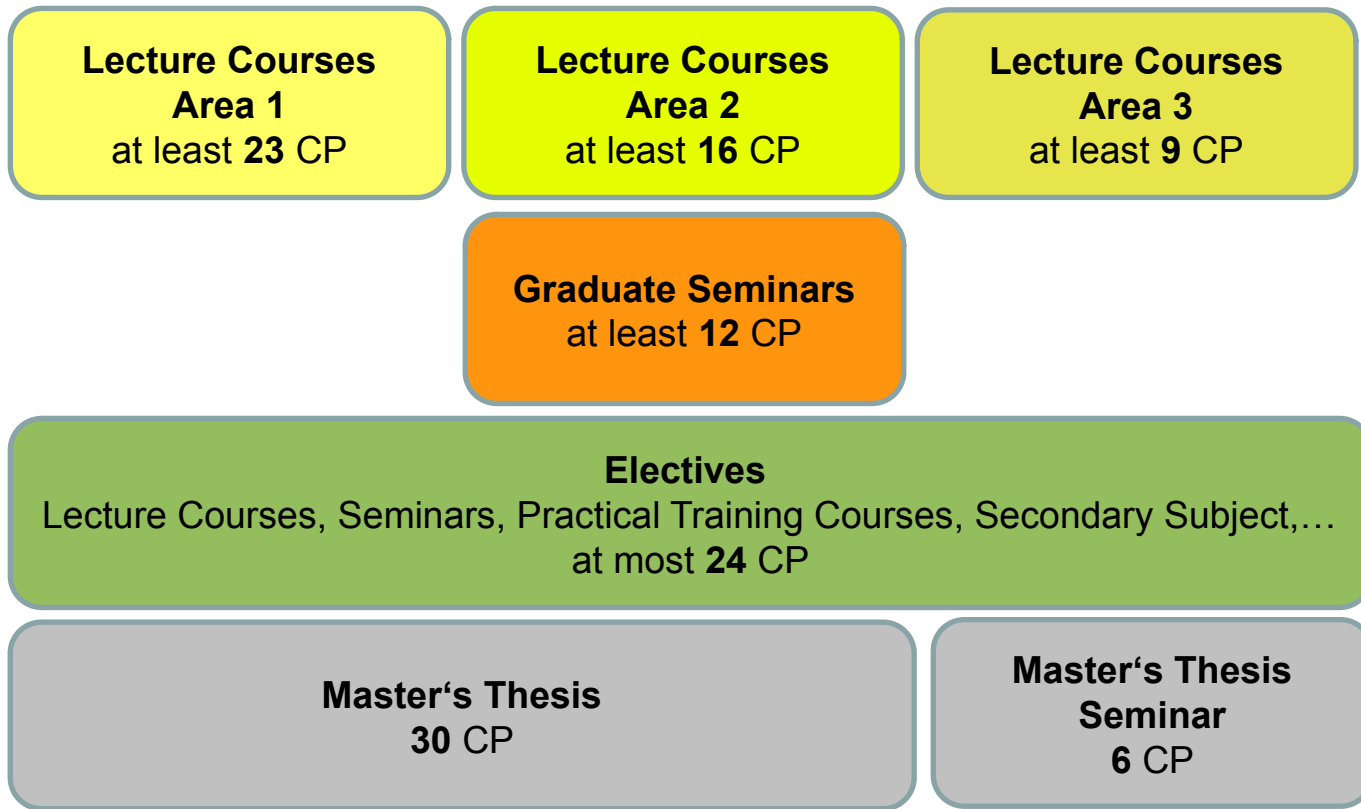
- For **academic** questions concerning your studies, please turn to **your mentor**.
- For **organisational** questions concerning your studies and examinations please turn to the **Bachelor-Master Office Mathematics** (bama@math.uni-bonn.de).
- If you are looking for **support** from fellow students you can contact the student council ('Fachschaft') (master@fsmath.uni-bonn.de).

Requirements for the Master's Degree

- **120** Credit Points (CP).
- At least **48** CP in lecture courses, with at least **23, 16 resp. 9** CP from three different areas.
- **12** CP in graduate seminars (at least 2 graduate seminars).
- **30** CP Master's thesis.
- **6** CP Master's thesis seminar.
- **24** CP from other lecture modules, graduate seminars, optional practical training courses, or modules from an optional secondary subject.



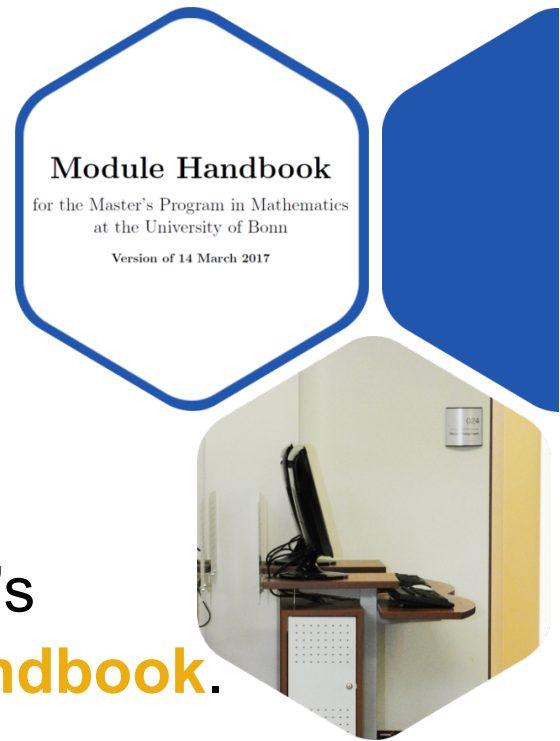
Master Studies





UNIVERSITÄT **BONN**

Module Handbook



All the modules offered in the Master's program are listed in the **module handbook**.

You can download the module handbook from our website:

www.mathematics.uni-bonn.de/studium/en/study-programs/master-program-mathematics#po-mh

You can find the **actual course overview** on <https://basis.uni-bonn.de>.



Module Examinations

Every module has a module examination which is normally graded.

Grading table:

| | | |
|------------------------|------------------------|---------------------|
| 1.0 / 1.3 | Sehr gut | Very Good |
| 1.7 / 2.0 / 2.3 | Gut | Good |
| 2.7 / 3.0 / 3.3 | Befriedigend | Satisfactory |
| 3.7 / 4.0 | Ausreichend | Sufficient |
| 5.0 | Nicht bestanden | Fail |

Failing a Module Examination

- A lecture course module examination is failed if both the **exam** at the end of the lecture period and the **retry** at the end of the term are failed.
- A graduate seminar or practical training course module examination is failed if the **seminar talk** or the **presentation / report / project** in the practical training course was graded with 5.0 (fail).
- If a module examination is failed, you may **repeat** the module examination **once**. Repetition is possible in a later semester in which the module is offered again.

Failing the Master Studies

- If the **Master's thesis seminar** is failed **twice**, the Master studies are failed.
- If the **repeated Master's thesis** receives the grade “fail”, the Master studies are failed.

Reporting Ill

- If you are ill on the date of your exam, you have to **report ill** to the Bachelor-Master Office on the **same day**.
- You have to hand in a medical certificate within **one week**. The certificate has to confirm that you have been unable to do an exam (“**Prüfungsunfähigkeit**”). The yellow form “Arbeitsunfähigkeitsbescheinigung” is not sufficient.



Semester Calendar



Next steps:

- Registration for the **Master examination** (in person at the Bachelor-Master office):
as of now until **30 October/April**
- Registration for **graduate seminars** and **practical trainings**: **1-30 October/April**
- Registration for **lecture course** module examinations:
Starting on **1 December/June**, ending
 - 2 weeks before the date of the 1st exam for **written** exams,
 - 2 weeks before the end of the lecture period for **oral** exams

Registration for exams **online** on www.basis.uni-bonn.de,
exception: Additional Modules and External Internships

All information available on

www.mathematics.uni-bonn.de/studium/en/study-organization/calendar/master-mathematics



Bachelor-Master Office Mathematics



Study Counselling Study Organisation

Dr. Antje Kiesel
Hildegard Gebertz
Endenicher Allee 60
Room 0.005 / 0.010
0228/73 -2468 / -2934
Office hours:
Tue 11-13
Fri 10-12

Secretariate

Ute Lemmer
Sabine George
Endenicher Allee 60
Room 0.004
0228/73-3180
Office hours:
Mon, Tue, Thu 9-11
Wed 13-15 (1-3 p.m.)

Studying abroad / Erasmus

- Erasmus coordinator:
Dr. Thoralf Räsch
- Annual information event at
the beginning of the winter
semester



www.mathematics.uni-bonn.de/studium/en/study-abroad

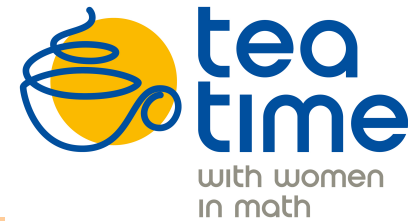
Diversity - Gender Equality

Topics

- diversity
- gender equality
- accessibility

Offers

- ombudspersons
- study room in N1.002
- newsletter
- student mentoring



Events

- Tea Time with Women in Mathematics
- Ally Day
- GROW conference
- excursions

Three Things to Remember

- ✓ Check regularly
www.mathematics.uni-bonn.de/studium/en
 - ✓ Check regularly
your **@uni-bonn.de e-mail** account
- and...





... enjoy your studies!



We wish you great and fruitful studies in Bonn!