Welcome to Freie Universität Berlin

Mathematics (M.Sc.)
Summer semester 2021
Who are we?

Prof. Dr. Klaus Altmann
► Professor for mathematics at Freie Universität Berlin
► Chairman of mathematics master’s program

Isa Adriane Günther
► Student of mathematics and English philology at Freie Universität Berlin
► Student counselor for mathematics
Student Advisory Service

Isa Adriane Günther
I can help you with…
…planning and organizing your studies
…questions about study regulations
…questions about the recognition of credits
…module registration
…counseling for international students
…and much more!

E-Mail: studienberatung@math.fu-berlin.de
Student Advisory Center

Students advising students
- Student advisory service
- International Counseling
- Mentoring
- EinS@FU-Mentoring

Student Advisory Center/Studentisches Beratungszentrum
Arnimallee 3 / Room 023
Mathematics at FU Berlin

► 19 professors, 18 private lecturers
► 33 working groups

The mathematics master’s program at Freie Universität especially profits from the following top research areas:

• Algebra, Analysis, Geometry, Number Theory and Topology
• Scientific Computing and Bioinformatics
• Discrete Mathematics and Algorithms
Mathematics Master’s Program

- **Standard Period of Study:** 4 **semesters** (= 2 years)
  - It is possible to study longer than 4 semesters.
  - Winter term: October–March
  - Summer term: April – September

- complete 120 LP (credit points) to obtain master’s degree
  - about 30 credit points per semester

- final grade: 1/3 master’s thesis and 2/3 exams and seminar grades
What are LP (ECTS)?

• 1 LP ≈ 30 hours of work
  • preparation
  • attendance
  • exercises
• earn LP by successfully completing modules

• Module example:
  ✓ Lecture: - exam
  ✓ Tutorials: - regular and active participation
               - a total of 50% of the points on weekly exercise sheets
What are LP (ECTS)?

• Take about **30 LP per semester** (less is possible).
• For a course/module with **two lectures a week**, you usually get **10 LP**
• many courses are structured like this

• => choose about 3 modules per semester
The courses are taught in...

English

(and sometimes in German.)
Which modules can I take?

- Current Offer: Course Catalog: (www.fu-berlin.de/vv/en/fb)

Which modules do I have to take?

- Study and Examination Regulations (www.mi.fu-berlin.de/en/math/stud/mathemaster/index.html)
### Structure of the Master’s Program

<table>
<thead>
<tr>
<th>Basic Modules</th>
<th>Intermediate and Advanced Modules</th>
<th>Supplemental Modules</th>
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</thead>
<tbody>
<tr>
<td><em><em>5</em> 10 LP = 50 LP</em>*</td>
<td><strong>5 + 5 = 10 LP</strong></td>
<td><strong>30 LP</strong></td>
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<tr>
<td>Algebra I</td>
<td>Algebra II</td>
<td>Aufbaumodul: Part III</td>
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<tr>
<td>Differential Geometry I</td>
<td>Differential Geometry II</td>
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<tr>
<td>Discrete Geometry I</td>
<td>Discrete Geometry II</td>
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<tr>
<td>Discrete Mathematics I</td>
<td>Discrete Mathematics II</td>
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<tr>
<td>Dynamical Systems I</td>
<td>Dynamical Systems II</td>
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<tr>
<td>Numerics II</td>
<td>Numerics III</td>
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<tr>
<td>Partial Differential Equations I</td>
<td>Partial Differential Equations II</td>
<td>Vertiefungsmodul: Seminar</td>
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<tr>
<td>Stochastics II</td>
<td>Stochastics III</td>
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<tr>
<td>Topology I</td>
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<td>Number Theory II</td>
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<td><strong>Master’s Thesis</strong></td>
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In which order should I choose these modules?

• first modules with lower number (an advice not a law): take Algebra I before you take Algebra II

• for some modules prior knowledge requirements are listed in course description

• complete 60 LP before you start your master’s thesis

• in order to take an advanced module, you need to have completed the corresponding basic and intermediate module
  • Algebra I/II + Algebra III => Master’s seminar Algebra (Algebra IV)
For your first semester (summer term 2021):

- **Basic modules you could take are for example:**
  - Partial Differential Equations I
  - Topology I
  - Discrete Mathematics I
  - Stochastics II

- depending on your prior knowledge, you can also take intermediate and supplemental classes
- it is possible to take classes at TU Berlin and HU Berlin
Exemplary Study Plan

<table>
<thead>
<tr>
<th>Basic Modules</th>
<th>Intermediate + Advanced Modules</th>
<th>Supplemental Modules</th>
<th>LP</th>
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<tbody>
<tr>
<td>Algebra I</td>
<td>Discrete Geometry I</td>
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<td>10 LP</td>
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<td>Numerics II</td>
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<td>10 LP</td>
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<tr>
<td>Stochastics II</td>
<td>Discrete Geometry II</td>
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<td>30</td>
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<td>10 LP</td>
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<td>Discrete Geometry II</td>
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<td>10 LP</td>
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<td>Master-seminar Discrete Geometry</td>
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<td>in modules of your choice</td>
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</tr>
<tr>
<td>Master's Thesis (in Discrete Geometry)</td>
<td>30 LP</td>
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<td>30</td>
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Exams

- **first exam** at the end of lecture time: mid-/end- February/July
- **second exam** before beginning of the new semester: ~ beginning of March/October
- If you decide to take the first and second written exam, the better grade counts.
- a total of 4 attempts to pass a course (not attending does not count as an attempt)
- no special registration for the exam required (unless your teacher tells you otherwise)
- **Grading System:**
  1.0  1.3  1.7  2.0  2.3  2.7  3.0  3.3  3.7  4.0  5.0
Exams

► Exam methods are still uncertain due to the coronavirus pandemic
► Registered on Campus Management
► Prüfungsbüro (Examination Office)
  ▸ Currently telephone consultation hours
  ▸ http://www.imp.fu-berlin.de/fbv/pruefungsbuero/index.html

Read your study and examination regulations for more information.
Studying in times of the Corona pandemic

- No events with attendance
- Various offers online:
  - Whiteboard and Zedat-E-Mails
  - Register with Zedat account
- WebEx
- Updates can be found here (https://www.fu-berlin.de/en/sites/coronavirus/index.html).

Goodwill and creativity!
To Do

► **Modules:**
  ▶ Register on Campus Management (University: study certificates)
    [https://lb.ecampus.fu-berlin.de](https://lb.ecampus.fu-berlin.de)
  ▶ Register on Whiteboard (Department: homework sheets, course information)
    [https://mycampus.imp.fu-berlin.de/portal/site](https://mycampus.imp.fu-berlin.de/portal/site)

► **In general:**
  ▶ Sign up for the department account
    [https://portal.mi.fu-berlin.de/login](https://portal.mi.fu-berlin.de/login)
Department Account

Why?
➢ Use computers on campus
➢ Use printers on campus
➢ Free Software
➢ Receive department’s e-mails

How?
One-time Login to department’s portal with ZEDAT-account.

Important: Please read your e-mails; you can automatically forward them to your primary e-mail address.

5 https://www.zedat.fu-berlin.de/Benutzerservice/Software
6 https://portal.mi.fu-berlin.de
Support for international students

International tutor: Verena Deege (verena.deege@fu-berlin.de)
International mentor: Isa Adriane Günther

To get all relevant information about support in English, please register on Whiteboard for the course:

Mentoring für Internationale Studierende (19000246)

And come to the international campustour (online) on Friday at 10am!
Support for international students

For further information, please have a look on our website:


Have a good time and do not hesitate to contact us, if you need any help!
Thank you for joining the meeting.

This presentation will be uploaded on our webpage

Are there still any questions?
• Use the chat box.
• Unmute yourself and talk to us.

Good luck with your studies!