Welcome to Freie Universität Berlin

Mathematics (M.Sc.)

Summer semester 2021

Foto: Bavaria Luftbild Verlags GmbH

Who are we?

Prof. Dr. Klaus Altmann

- Professor for mathematics at Freie Universität Berlin
- Chairman of mathematics master's program
- http://www.math.fu-berlin.de/altmann/

Isa Adriane Günther

- Student of mathematics and English philology at Freie Universität Berlin
- Student counselor for mathematics
- www.mi.fu-berlin.de/en/stud/beratungszentrum/kontakt/stud_kontakt/math/isa_adriane_guenther.html

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

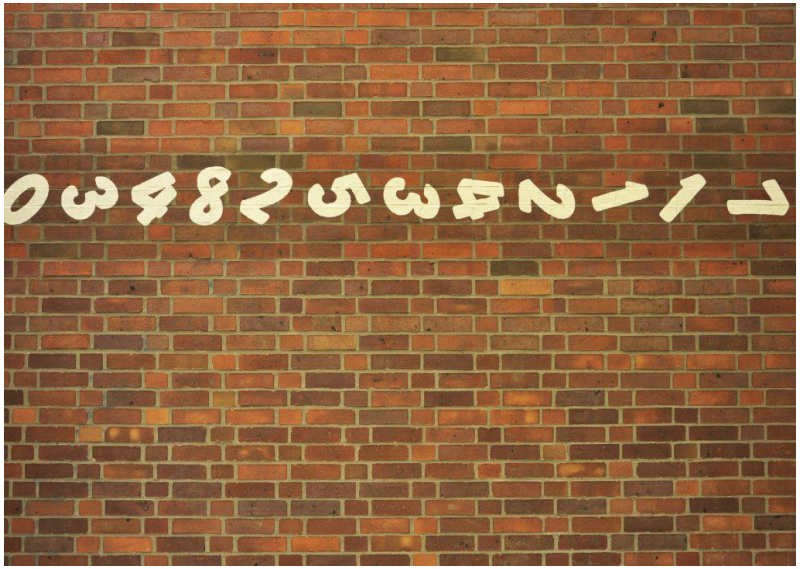
Student Advisory Center/Studentisches Beratungszentrum
Arnimallee 3 / Room 023
www.mi.fu-berlin.de/en/stud/beratungszentrum/index.html

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)
- General Offer: Study and Examination Regulations (www.mi.fu-berlin.de/en/math/stud/mathemaster/index.html)

Which modules do I have to take?

- Study and Examination Regulations (www.mi.fu-berlin.de/en/math/stud/mathemaster/index.html)

mentoring

Freie Universität Berlin

Structure of the Master's Program

Basic Modules		Intermediate and Advanced Modules	Supplemental Modules
5* 10 LP = 50 LP		5 + 5 = 10 LP	30 LP
Algebra I	Algebra II	Aufbaumodul: Part III	Ausgewählte Themen A, B, C: (10 LP)
Differential Geometry I	Differential Geometry II		Speziellle Aspekte A, B, C: (5 LP)
Discrete Geometry I	Discrete Geometry II		Aktuelle Forschungsthemen A, B, C: (5 LP)
Discrete Mathematics I	Discrete Mathematics II		Spezielle Forschungsaspekte: (5 LP)
Dynamical Systems I	Dynamical Systems II		Forschungsprojekt: (10 LP)
Numerics II	Numerics III	Vertiefungsmodul: Seminar	
Partial Differential Equations I	Partial Differential Equations II		
Stochastics II	Stochastics III		
Topology I	Topology II		
	Number Theory II		
Master's Thesis			
30 LP			

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

Basic Modules			Intermediate + Advanced Modules		Supple-mental Modules	LP
Algebra I 10 LP	Discrete Geometry I 10 LP	Numerics II 10 LP				30
Stochastics II 10 LP	Discrete Geometry II 10 LP				10 LP In modules of your choice	30
			Discrete Geometry III 5 LP	Master-seminar Discrete Geometry 5 LP	20 LP in modules of your choice	30
Master‘s Thesis (in Discrete Geometry) 30 LP						30

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 attendence
- 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!

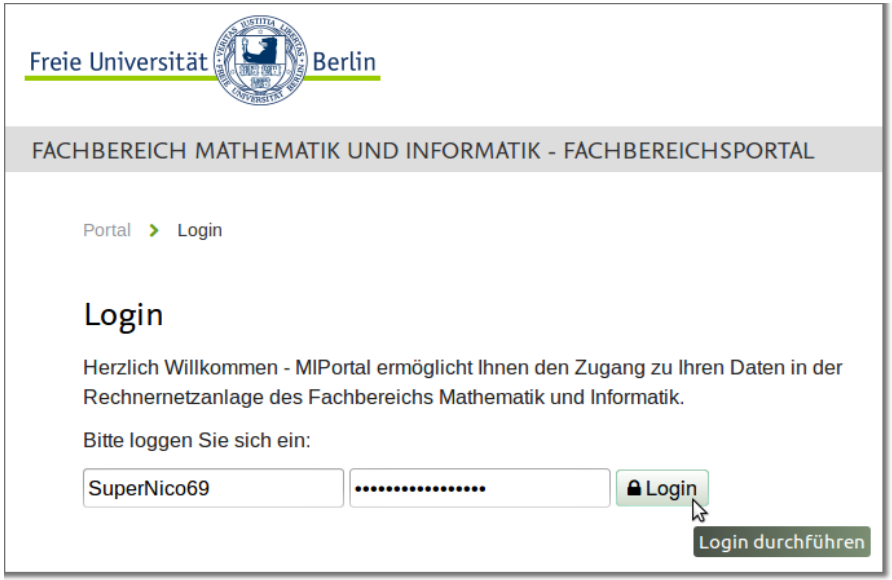
To Do

- **Modules:**
  - Register on Campus Management (University: study certificates) https://lb.ecampus.fu-berlin.de
  - Register on Whiteboard (Department: homework sheets, course information) https://mycampus.imp.fu-berlin.de/portal/site
- **In general:**
  - Sign up for the department account https://portal.mi.fu-berlin.de/login
  -

Department Account

Why?

- ➢ Use computers on campus
- ➢ Use printers on campus
- ➢ Free Software[5]
- ➢ Receive department's e-mails



How?

One-time Login to department's portal[6] 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!

https://www.mi.fu-berlin.de/en/stud/beratungszentrum/erstsemester/index.html

Support for international students

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

International Counseling: https://www.mi.fu-berlin.de/en/stud/beratungszentrum/studienberatunginternational/index.html

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

- https://www.mi.fu-berlin.de/en/stud/beratungszentrum/erstsemester/index.html

Are there still any questions?

- Use the chat box.
- Unmute yourself and talk to us.

Good luck with your studies!