



Studying at Freie Universität Berlin

Mathematics - Master of Science

Mathematics Master's Program

- Standard Period of Study: **4 semesters** (= 2 years)
 - Winter term: October–March lectures: 14 October – 15 February
 - Summer term: April – September lectures: 14 April – 18 July
- 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 \approx 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)?

- about **30 LP per semester**
- For a course/module with **two lectures a week**, you usually get **10 LP**
- most courses are structured like this

=> choose about 3 modules per semester

The courses are taught in...

English

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

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		Spezielle 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		Vertiefungsmodul: Seminar	Forschungsprojekt (10 LP)
Numerics II	Numerics III			
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?

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 corresponding basic and intermediate modules
 - Algebra I/II + Algebra III => Masterseminar Algebra

For your first semester (summer term 2020):

- Basic modules – Part I you could take:
 - Stochastic Processes II
 - Discrete Mathematics I
 - Dynamic Systems I
- depending on your prior knowledge, you can also take intermediate and supplemental classes
- it is possible to take classes (Nebenhörerschaft) at TU Berlin and HU Berlin

Example: Study Plan

Basic Modules			Intermediate + Advanced Modules		Supplemental 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
- **second exam** before beginning of the new semester
 - Beginning of March
- If you decide to take the first and second exam, **the better grade counts.**
- a total of **4 attempts**
- no special **registration for the exam** required
(not attending does not count as attempt)
- **Grading System:**

1,0 1,3 1,7 2,0 2,3 2,7 3,0 3,3 3,7 4,0 5,0

Studentische Studienberatung

Mathematik und Informatik

www.mi.fu-berlin.de/en/stud/beratungszentrum

studienberatung@math.fu-berlin.de

A3 – Room 023

Due to the corona virus, the Free University of Berlin will offer a digital summer semester. Updates can be found here (<https://www.fu-berlin.de/en/sites/coronavirus/index.html>).

