

Examination Regulations Q&A

Master 100% Mathematics

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Disclaimer

The information presented in this presentation is not necessarily correct, despite careful verification.

Legally binding information can only be given by the respective student advisor, for Mathematics this is Dr. Kasten.

<https://www.mathinf.uni-heidelberg.de/de/advisory>

General study structure

M. Sc. Mathematics

60 ECTS	Specialised studies in mathematics
16 ECTS	Application field
6 ECTS	Interdisciplinary competencies
38 ECTS	Master's thesis
= 120 ECTS	

To achieve the standard study period of 4 semesters, one has to take on 30 ECTS on average per semester. The maximum duration of study is 7 semesters.

General study structure

Specialised studies

■ Selective Modules

- One module of 8 ECTS each for the following to areas:

- Pure Mathematics

- Algebra and Arithmetic

- Geometry and Topology

- Complex Analysis, Automorphic Forms, and Mathematical Physics

- Applied Mathematics

- Applied Analysis and Modeling

- Numerics

- Probability Theory and Statistics

■ Elective Modules

■ Compulsory Modules

General study structure

Specialised studies

- Selective Modules
- Elective Modules
 - in total 32 ECTS
 - modules can be chosen from the master's module handbook, either additional modules from the selective modules or additional modules (e.g., Optimization for Machine Learning)
 - up to 16 ECTS can be from the bachelor's module handbook in consultation with the examinations office
 - should contain modules needed for the master's thesis
- Compulsory Modules
 - two seminars (each 6 ECTS)
 - Master's thesis (30 ECTS)
 - Master's colloquium (8 ECTS)

General study structure

Application field

- Computer Science
- Physics
- Astronomy
- Biology
- Chemistry
- Economics
- Philosophy
- More (in consultation with the examinations office)

In consultation with the examinations office, it is also possible (and recommended for students particularly interested in pure maths research) to replace the application field modules with more mathematics modules.

General study structure

Interdisciplinary competencies

6 (not graded) ECTS to be chosen from the module hand book, for example:

- Software or industry internships (4-8 ECTS)
- Tutor training course (2 ECTS)
- Exchange semester (max. 2 with each 3 ECTS)
- Study programmes at the university (**language courses**, Block courses in life insurance or finance maths, etc.) (max. 10 ECTS)
- More

During Your Courses...

Exams

■ Exams

- At the end of the semester (last week of lecture period + first two weeks of lecture-free period)
- Exact information will be relayed by professor (written, oral, etc.)

■ Repetition of exams

- Each exam is one attempt at the exam
- You cannot repeat a passed exam (4.0 or better)
- For all lectures you have at least 2 attempts
- A third attempt is allowed for upto three modules (upon written application)
- Failed exams can either be repeated in a follow-up exam or in the next rotation

■ Master's thesis

- Should be registered 4 weeks after the publication of the last results the latest
- No formalities regarding applications for your future thesis supervisor
- Start searching early

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Examination Regulations and Module handbook

List with links

- Subject description page Mathematics

<https://www.uni-heidelberg.de/en/study/all-subjects/mathematics>

- Examination Regulations Mathematics

<https://www.mathinf.uni-heidelberg.de/de/dokumente/pruefungsordnung-master-mathematik/>

download

- Module handbook Mathematics

<https://backend.uni-heidelberg.de/de/dokumente/>

modulhandbuch-mathematik-master-2023-02-08/download

Questions?