

Structure of the master's program

Master Scientific Computing

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Disclaimer

Despite careful verification, the information presented in this presentation is not necessarily correct.

Legally binding information can only be given by the Program Counsellor, Dr. Michael Winckler.

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

General Structure of the master's program

M. Sc. Scientific Computing

48 Core area mathematics and computer science

14 Seminars and practicals

16 Application area

36 Thesis area

6 Key competencies

= 120 (30 ECTS per semester to finish in standard period of study)

Structure of Scientific Computing

Core area mathematics and computer science

- at least 16 ECTS from lecture modules in mathematics
 - must be from the master of mathematics
 - can include one bachelor import
- at least 16 ECTS from lecture modules in computer science

Structure of Scientific Computing

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- at least 16 ECTS from lecture modules in computer science
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 - can include one bachelor import

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Seminars and Practicals

- Seminar in mathematics 6 ECTS
- Advanced practical in computer science 8 ECTS

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Thesis Area

- thesis on the research about a scientific topic 30 ECTS
- thesis defense 6 ECTS

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Application Area

Can either be an Application Field (broad) or an Application Focus (specific)

- Astronomy
- Physics
- Biosciences
- Chemistry
- Computational Linguistics
- Psychology
- Economics
- more (ask the Program Counsellor)

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Key Competencies

6 ECTS, can be chosen from:

- Internship
- Tutor Training Course
- Term Abroad
- Language Class
- Other Courses in an area not covered in your master
- ...

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

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Further Links

- Program Page

<https://mastersc.iwr.uni-heidelberg.de/study-plan>

- Examination Rules and Regulations

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

<pruefungsordnung-scientific-computing-ma-2022-10-05/download>

- Module Handbook Scientific Computing

<https://backend.uni-heidelberg.de/en/documents/>

<modulhandbuch-scientific-computing-ma-2022-02-09/download>

Questions?