Welcome to the master’s program in Computer Science!

Total expenditure
Sum of credits to be achieved: 120
Duration: 4 semester resp. 2 years
Degree: Master of Science (M.Sc.)

Start of courses
Winter term (October - March): 2. November 2020
Summer term (April - September): 12. April 2021

Language of instruction
Lectures and exercises are in English on demand otherwise in German.

Structure
The structure of the master program is based on the current recommendations of the German Society for Computer Science (GI). It is subdivided into four sections: A. Informatics, B. Projects, C. Languages and D. Master Thesis.

Registration
It is necessary that you register before for all courses and exams. Please see:
https://my.uni-bayreuth.de/cmlife/welcome

Courses in winter term 2020/21
(Please note, the courses start c.t.)

**Section A: Informatics**
To be achieved: 35 to 45 Credits

Courses in summer term 2020

**INF 214 Foundations of Modelling**
(Grundlagen der Modellierung, 5 Credits)
Lecture: Tue, 16-18, AI – S 110, Prof. Westfechtel
Exercises: To be announced, J. Schröpfer

**INF 217 Human-Computer-Interaction II**
(Modul: Mensch-Computer-Interaktion II, 5 Credits)
Lecture: online, Prof. Müller
Exercises: online, A. Fleig

**INF 307 Data Analysis I**
(Modul: Data Analytics, 8 Credits)
Lecture: Tue, 12-14, NWII – H19, Prof. Jablonski
Exercises: To be announced, L. Ackermann

**INF 316 Pattern recognition**
(Mustererkennung, 5 Credits)
Lecture: Thu, 14-16, online, Prof. Henrich
Exercises: Wed, 14-16, online, J. Hartwig

**INF 326 Foundations of Data Management**
(Foundations of Data Management, 5 Credits)
Lecture: To be announced, Prof. Martens
Exercises: To be announced, M. Niewerth

**INF 328: Process Aware Information Systems**
(Modul: Advanced Information Systems, 5 Credits)
Lecture: Tue, 12-14, NWII - H 19, L. Ackermann
(classroom/online)
Exercises: To be announced, L. Ackermann

**INF 328: Process Aware Information Systems**
(Modul: Advanced Information Systems, 5 Credits)
Lecture: Tue, 12-14, NWII - H 19, L. Ackermann
(classroom/online)
Exercises: To be announced, L. Ackermann
For INF 307 (Data Analytics) both parts (Data Analysis I and Data Analysis II) are necessary

**Section B: Projects**

To be achieved: 30 to 31 Credits

Please contact the computer science chairs directly.

**Projects in both terms**

INF 351: Small Master Project  
(Kleines Master-Projekt, 8 Credits)

INF 352: Large Master Project  
(Großes Master-Projekt, 15 Credits)

At least one Big Master Seminar needed.

INF 353: Large Master Seminar  
(Großes Master-Seminar, 8 Credits)

At most one Big Master Seminar allowed.

**Section C: Languages**

To be achieved: 15 to 24 Credits

The German language courses are provided by the Language Centre (Sprachenzentrum)

Please see: [www.sz.uni-bayreuth.de](http://www.sz.uni-bayreuth.de)

German Level A1 has to be achieved within first year.

**Section D: Master Thesis**

To be achieved: 30 Credits

INF 301: Master Thesis  
(Masterarbeit, 30 Credits)

Please contact the computer science chairs directly.

Valid for summer term 2020 and **winter term 2020/21**

**Master’s program in Computer Science**

[www.ai.uni-bayreuth.de/de/studium/master-computer-science/](http://www.ai.uni-bayreuth.de/de/studium/master-computer-science/)