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): 18. October 2021
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

Section A: Informatics
To be achieved: 35 to 45 Credits
More information about all courses will be available online (https://elearning.uni-bayreuth.de). Please note, the courses start quarter past.

Courses in winter term 2020/21

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
https://elearning.uni-bayreuth.de/course/view.php?id=27693

INF 326 Foundations of Data Management
(Modul: Advanced Information Systems, 5 Credits)
Lecture: Tue, 12-14, NWII - H 19, Dr. Ackermann
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, Dr. Ackermann
(classroom/online)
Exercises: To be announced, L. Ackermann

Courses in summer term 2021

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

INF 218 Programming, Data Analysis and Deep Learning in Python
(Programmieren und Datenanalyse in Python, 5 Credits)
Lecture: online, Prof. Müller
Exercises: online, A. Fleig
https://elearning.uni-bayreuth.de/course/view.php?id=29907

INF 219 Intelligent User Interfaces, 5 Credits)
Lecture: Mon, 16-18, online, Dr. Buschek
Exercises: Tue, 16-18, online, Dr. Buschek

INF 305 High Performance Computing (8 Credits)
Lecture: Mon, 8-10, online, Prof. Rauber
Lecture: Thu, 10-12, online, Prof. Rauber
Exercises: Mon, 12-14, online, J. Seiferth
Fri, 13-15, online, J. Seiferth

INF 307 Data Analysis II
(Modul: Data Analytics, 8 Credits)
Lecture: Mon, 12-14, online, Dr. Ackermann
Exercises: To be announced, N. Schützenmeier
For INF 307 (Data Analytics) both parts (Data Analysis I and Data Analysis II) are necessary
INF 315 Robotics II
(Robotik II, 5 Credits)
Lecture: Thu, 14-16, online, Prof. Henrich
Exercises: Fri, 10-11, online, D. Harrer
https://elearning.uni-bayreuth.de/course/view.php?id=29095

INF 317 Computer graphics III
(Computergraphik III, 5 Credits)
Lecture: Tue, 8-10, online, Prof. Guthe
Exercises: Thu, 13-14, online, M. Reischl

INF 320 Parallel algorithms
(Parallele Algorithmen, 5 Credits)
Lecture: Thu, 8-10, online, Dr. Korch
Exercises: To be announced, Dr. Korch

INF 321 Foundations of Semi-structured Data
(Foundations of Semi-structured Data, 5 Credits)
Lecture: online (Prof. Martens)
Exercises: online (Prof. Martens)
https://elearning.uni-bayreuth.de/course/view.php?id=29933

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
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.

Section B: Projects
To be achieved: 30 to 31 Credits
Please contact the computer science chairs directly.

Valid for summer term 2021 and winter term 2020/21

Master’s program in Computer Science
www.ai.uni-bayreuth.de/de/studium/master-computer-science/