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
Summer term (April - September): 20. April 2020

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
There is no registration for the courses nesseccary, but for each exam.
Please see: campusonline.uni-bayreuth.de

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

Courses in winter term 2019/20

INF 209 Animation and simulation
(Animation und Simulation, 5 Credits)
Lecture: Thu, 12-14, Al - S 110, Prof. Guthe
Exercises: Wed, 10-12, FAN - S 106, M. Reischl

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

INF 307 Data Analysis I
(Modul: Data Analytics, 8 Credits)
Lecture: Tue, 12-14, Al - H34, Prof. Jablonski
Exercises: Tue, 16-18, Al – S 112, L. Ackermann

INF 316 Pattern recognition
(Mustererkennung, 5 Credits)
Lecture: Thu, 14-16, Al – S 110, Prof. Henrich
Exercises: Wed, 14-16, NWII – S 135, N. Höllerich

INF 317 Computer graphics II
(Computergraphik II, 5 Credits)
Lecture: Thu, 8-10, Al - S 110, Prof. Guthe
Exercises: Mon, 12-14, Al – 1.03, C. Buchenau
Thu, 10-12, Al – 1.03, C. Buchenau

INF 326 Foundations of Data Management
(Foundations of Data Management, 5 Credits)
Lecture: Thu, 10-12, NWII – S 72, M. Niewerth
Exercises: Thu, 16-18, Al – S 112, M. Niewerth

INF 327 Human-Computer Interaction III
(Mensch-Computer-Interaktion III, 5 Credits)
Lecture: Tue, 14-16, H 33, Prof. Müller
Exercises: Wed, 12-14, Al – S 112, M. Bachynskyi
Wed, 14-16, Al – S 112, M. Bachynskyi

Courses in summer term 2020

INF 202 Computer graphics I
(Computergraphik I, 5 Credits)
Lecture: Mon, 14-16, Al – S 111, Prof. Guthe
Exercises: Tue, 12-13, Al – S 110, M. Reischl
Wed, 12-13, Al – S 75, M. Reischl

INF 217 Human-Computer-Interaction II (Mensch-Computer-Interaktion II 5 Credits)
Lecture: Wed, 12-14, Al – H 33, Prof. Müller
Exercises: Tue, 10-12, Al – S 112, M. Bachynskyi
Thu, 10-12, Al – S 111, M. Bachynskyi

INF 305 High Performance Computing (Programmierung innovativer Rechnerarchitekturen, 8 Credits)
Lecture: Mon, 8-10, Al – H 34, Prof. Rauber
Lecture: Wed, 14-16, Al – H 34, Prof. Rauber
Exercises: Wed, 16-18, Al – S 111, A. Prell
Mon, 12-14, Al – INF 1.03, A. Prell

INF 307 Data Analysis II
(Modul: Data Analytics, 8 Credits)
Lecture: Mon, 12-14, Al – H 34, Prof. Jablonski,
Dr. Schönig
Exercises: Tue, 8-10, Al – S 112, Dr. Schönig

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, AI – S 111, Prof. Henrich
Exercises: Thu, 12-13, AI – INF 1.37, D. Rohner

INF 320 Parallel algorithms
(Parallele Algorithmen, 5 Credits)
Lecture: Thu, 8-10, AI – H 34, Dr. Korch
Exercises: Fr, 10-12, AI – S 112, Dr. Korch

INF 321 Foundations of Semi-structured Data
(Foundations of Semi-structured Data, 5 Credits)
Lecture: Mon, 16-18, AI – S 111 (Prof. Martens)
Exercises: Wed, 14:15-16, AI – 2.05 (Prof. Martens)

INF 328 Process Aware Information Systems
(Modul: Advanced Information Systems, 5 Credits)
Lecture: Tue, 14-16, AI – H34, Prof. Jablonski, Dr. Ackermann
Exercises: to be announced, Dr. Ackermann

Projects in both terms

INF 351: Small Master Project
(Kleines Master-Projekt, 8 Credits)
INF 352: Large Master Project
(Großes Master-Projekt, 15 Credits)
INF 353: Large Master Seminar
(Großes Master-Seminar, 8 Credits)

At least one Big Master Seminar needed.
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.

Master's program in Computer Science

Valid for winter term 2019/20 and summer term 2020

Section B: Projects

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

www.cs.uni-bayreuth.de/en/studies/MA-CS