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): 23. April 2019

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 (GfK). 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 2018/19

INF 212 Theoretical computer science II
(Theoretische Informatik II, 5 Credits)
Lecture: Tue., 16-18, Al – S 112, Prof. Martens
Exercises: Mon, 12-14, Al – 2.05, M. Niewerth
Tutorial : Wed, 12-13, Al (Prof. Martens)

INF 214 Foundations of Modelling
(Grundlagen der Modellierung, 5 Credits)
Lecture: Tue, 10-12, Al – S 112, 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 111, Dr. Schönig

INF 316 Pattern recognition
(Mustererkennung, 5 Credits)
Lecture: Thu, 14-16, Al – S 110, Prof. Henrich
Exercises: Wed, 14-16, Al – S 111, N. Höllerich

INF 324 Software Product Line Engineering
(Software Produktlinien Entwicklung, 5 Credits)
Lecture: Mon, 10-12, Al – S 112, Dr. Buchmann
Exercises: To be announced, Dr. Buchmann

INF 326 Foundations of Data Science
(Foundations of Data Science, 5 Credits)
Lecture: Thu, 10-12, Al – S 111, Prof. Martens
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, Al – S 111, Prof. Müller
Exercises: Wed, 12-14, Al – S 111, M. Bachynskyi

Courses in sumemr term 2019

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: To be announced, 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, Al – S 111, Prof. Henrich
Exercises: Wed, 14-15, 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 Theoretical Computer Science III
(Theoretische Informatik III, 5 Credits)
Lecture: Mon, 14:15-16, AI – 2.05 (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

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 (Sprachzentrum)
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.

Valid for winter term 2018/19 and summer term 2019

Master's program
in Computer Science

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