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): 15. Oct. 2018
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 (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 necessary, 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: J. Schröpfer
INF 316 Pattern recognition
(Mustererkennung, 5 Credits)
Lecture: Thu, 14-16, Al – S 110, Prof. Henrich
Exercises: Wed, 14-16, Al – S 111, K. Wölfel

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, 13-15, Al – S 111, Prof. Müller
Exercises: Wed, 12-14, Al – S 111, M. Bachynskyi

Courses in summer term 2019
INF 217 Human-Computer-Interaction II
(Mensch-Computer-Interaktion II 5 Credits)
Lecture: Wed, 12-14, Al – H 33, Prof. Müller
Exercises: Tue, 10-11, Al – S 110, V. Paneva

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 110, A. Prell
Tutorial: Mon, 12-14, Al – INF1.03, A. Prell

INF 307 Process Aware Information Systems
(Datenbanken und Informationssysteme III, 8 Credits)
Lecture: Tue, 14-16, Al – H 34, Dr. Ackermann
Exercises: To be announced, Dr. Ackermann
For INF 307 two out of three parts eligible
INF 315 Robotics II
(Robotik II, 5 Credits)
Lecture: Thu, 14-16, AI – S 111, Prof. Henrich
Exercises: Fr, 12-13, AI – INF1.37, D.Rohner

INF 318 Computer graphics III
(Computergraphik III, 5 Credits)
Lecture: Tue, 8-10, AI – S 110, Prof. Guthe
Exercises: Thu, 13-14, AI – S 110, M. Reischl

INF 320 Parallel algorithms
(Parallele Algorithmen, 5 Credits)
Lecture: Thu, 8-10, AI – H 34, Dr. Korch
Exercises: To be announced, Dr. Korch

INF 321 Theoretical Computer Science III
(Theoretische Informatik III, 5 Credits)
Lecture: Mon, 16-18, AI – S 111 (Prof. Martens)
Exercises: Wed, 14:15-16, AI – 2.05 (Prof. Martens)

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
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.