

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): 12. Oct. 2020

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 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 2019/20

INF 209 Animation and simulation

(Animation und Simulation, 5 Credits)

Lecture: Thu, 12-14, AI - S 110, Prof. Guthe

Exercises: Wed, 10-12, NWIII - S 137, D. Müller

INF 214 Foundations of Modelling

(Grundlagen der Modellierung, 5 Credits)

Lecture: Mon, 16-18, NWII – H19, Prof. Westfechtel

Exercises: To be announced, J. Schröpfer

INF 217 Programming, Data Analysis and Deep Learning in Python

(Modul: Mensch-Computer-Interaktion II, 5 Credits)

Lecture: Tue, 10-12, AI - H33, Prof. Müller

Exercises: Tue, 12-14, AI – S 112, A. Fleig
Tue, 14-16, AI – S 112, A. Fleig

INF 307 Data Analysis I

(Modul: Data Analytics, 8 Credits)

Lecture: Tue, 12-14, AI - H34, Prof. Jablonski

Exercises: Tue, 16-18, AI – S 112, L. Ackermann

INF 316 Pattern recognition

(Mustererkennung, 5 Credits)

Lecture: Thu, 14-16, AI – S 110, Prof. Henrich

Exercises: Wed, 14-16, NWIII – S 135, N. Höllerich

INF 317 Computer graphics II

(Computergraphik II, 5 Credits)

Lecture: Thu, 8-10, AI - S 110, Prof. Guthe

Exercises: Tue, 12-14, AI – S 110, C. Buchenau
Thu, 10-12, AI – S 110, C. Buchenau

INF 326 Foundations of Data Management

(Foundations of Data Management, 5 Credits)

Lecture: Thu, 10-12, NWII – S 72, Prof. Martens

Exercises: Thu, 16-18, AI – S 112, M. Niewerth

INF 327 Human-Computer Interaction III

(Mensch-Computer-Interaktion III, 5 Credits)

Lecture: Tue, 14-16, AI – H 33, Prof. Müller

Exercises: Wed, 12-14, AI – S 112, F. Fischer
Wed, 14-16, AI – S 112, F. Fischer



Courses in summer term 2020

INF 214 Foundations of Modelling

(Grundlagen der Modellierung, 5 Credits)

Lecture: Tue, 16-18, AI – S 110, Prof. Westfechtel

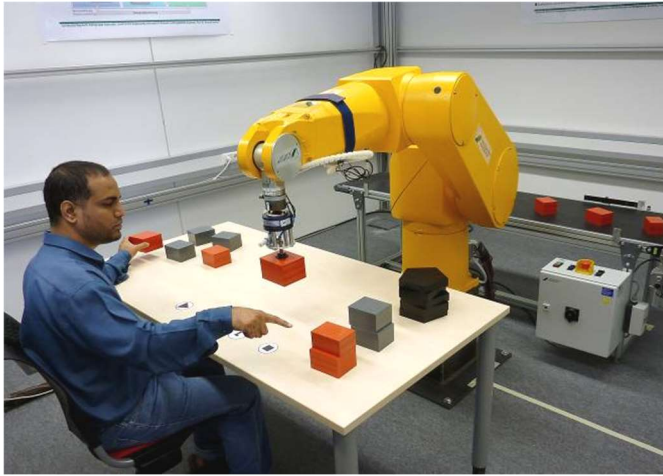
Exercises: To be announced, J. Schröpfer

INF 218 Programming, Data Analysis and Deep Learning in Python

(Programmieren und Datenanalyse in Python, 5 Credits)

Lecture: Wed, 12-14, AI – H33, Prof. Müller

Exercises: Mon, 14-16, AI - S110, A. Fleig
Tue, 10-12, AI – S110, A. Fleig



INF 305 High Performance Computing (8 Credits)
 Lecture: Mon, 8-10, AI – H 34, Prof. Rauber
 Lecture: Fr, 8-10, AI – H 34, Prof. Rauber
 Exercises: Wed, 16-18, AI – S 112, J. Seiferth
 Mon, 12-14, AI – INF 1.03, J. Seiferth

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

For INF 307 (Data Analytics) both parts (Data Analysis I and Data Analysis II) are necessary

INF 317 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 – S 112, 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 112 (Prof. Martens)
 Exercises: Wed, 14-16, AI – H33 (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

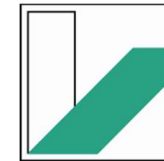
German Level A1 has to be achieved within first year.

Section D: Master Thesis

To be achieved: 30 Credits

INF 301: Master Thesis
 (Masterarbeit, 30 Credits)

Please contact the computer science chairs directly.



UNIVERSITÄT
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Valid for winter term 2019/20 and summer term 2020

Master's program in Computer Science



www.ai.uni-bayreuth.de/de/studium/master-computer-science/