

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

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INF 326 Foundations of Data Management

(Foundations of Data Management, 5 Credits)

Lecture: online, Prof. Martens

Exercises: online, M. Niewerth

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-](https://elearning.uni-bayreuth.de/course/view.php?id=29907)

[bayreuth.de/course/view.php?id=29907](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

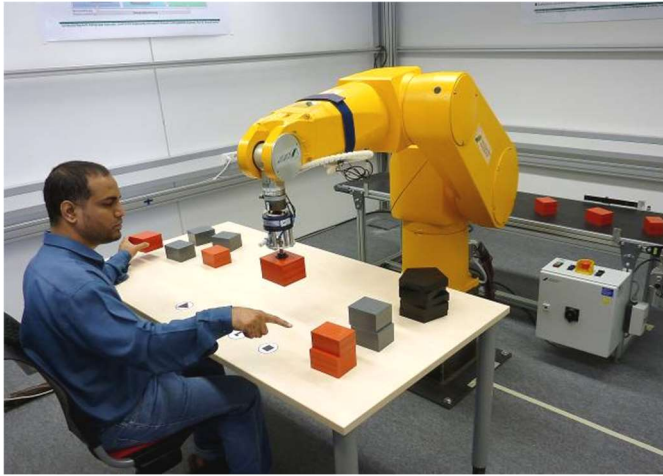
INF 307 Data Analysis II

(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>

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.

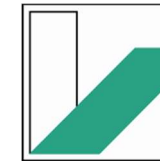
Section D: Master Thesis

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 summer term 2021 and winter term 2020/21

Master's program in Computer Science



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