

## Welcome to the master's program in Computer Science!

### Total expenditure

Sum of credits to be achieved: 120

Duration: 4 semesters resp. 2 years

Degree: Master of Science (M.Sc.)

### Start of courses

Winter term (October - March): 12. October 2026

Summer term (April - September): 13. April 2026

### 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

A registration for courses is NOT needed. It is necessary that you register in advance for all your exams. Please see:

<https://my.uni-bayreuth.de/cmlife/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 that the courses start at quarter past.

### Courses in winter term 2025/26

INF 209: Animation und Simulation (5 Credits)

Lecture: Thu, 12-14, online, Prof. Guthe

Exercises: Wed, 10-12, NWII-S79, K. Liu

INF 212: Theoretical Computer Science II (5 Credits)

Lecture: Tue, 16-18, INF-S112, Prof. Martens

Exercises: Mon, 12-14, INF-S112, Prof. Martens

INF 218: Data Analysis and Deep Learning in Python (5 Credits)

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

Exercises: Fri, 12-14, INF-2.01, Dr. Mingardo

INF 225: Advanced Software Engineering (5 Credits)

Lecture: Wed, 12-14, INF-S110, Dr. Chakraborty

Exercises: Mon, 14-16, INF-S112, Dr. Chakraborty

INF 227: Advanced Programming Concepts in Rust (5 Credits)

Lecture: Thu, 12:15-13:45, INF-S110, Dr. Niewerth

Exercises: Tue, 14:15-15:45, INF-1.03, Ch. Birzer

INF 316: Pattern recognition (5 Credits)

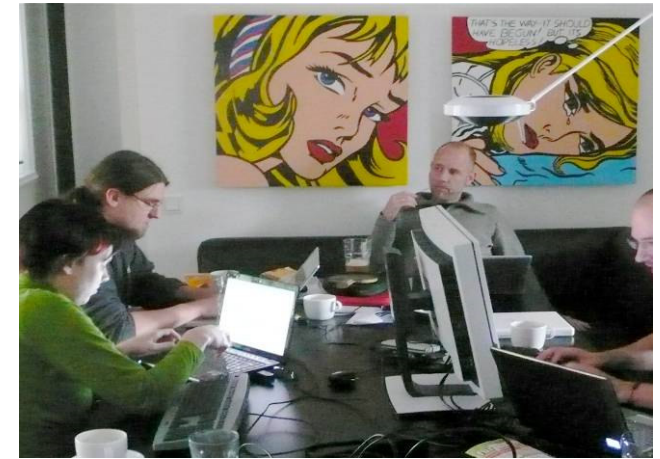
Lecture: Thu, 14-16, INF-S110, Prof. Henrich

Exercises: Mon, 12-13, INF-H34, J. Hartwig

INF 326: Foundations of Data Management (5 Credits)

Lecture: Thu, 10-12, INF-H34, Prof. Martens

Exercises: Thu, 16-18, INF-S112, Ch. Birzer



INF 328: Process Aware Information System (Module: Advanced Information Systems, 5 Credits)

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

Exercises: Fri, 13-14, INF-S110, Dr. Petter

INF 330: Computational Geometry II (5 Credits)

Lecture: Wed, 10-12, INF-S112, Dr. Stehn

Exercises: Fri, 10-12, INF-2.42, Dr. Stehn

### Courses in summer term 2026

INF 202: Computer graphics I (5 Credits)

Lecture: Mon, 14-16, online, Prof. Guthe

Exercises: Tue, 12-13, INF-S112, K. Liu

Tue, 14-15, FAN-S106, K. Liu

Wed, 11-12, INF-S138, K. Liu

INF 220: Information Visualization (5 Credits)

Lecture: Tue, 14-16, INF-H34, Prof. Buschek

Exercises: Tue, 16-18, INF-H34, F. Lehmann

INF 219: Intelligent User Interfaces (5 Credits)

Lecture: Thu, 14-16, NWI-H9, Prof. Buschek

Exercises: Wed, 16-18, INF-H34, T. Zindulka

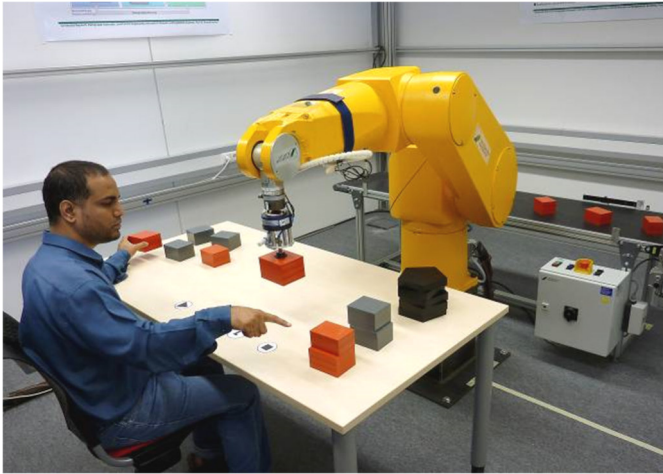
Thu, 10-12, INF-2.01, T. Zindulka

INF 223: Graph Processing and Machine Learning (GPML) (5 Credits)

Lecture: Tue, 16-18, INF-S110, Profs. Mayer/Martens

Exercises: Wed, 10-12, INF-S110, Profs.

Mayer/Martens



INF 228: Time Series and Machine Learning (5 Credits)

Lecture: Tue, 12:30-14:00, INF-S110, Prof. Leutheuser  
 Exercises: Thu, 10:15-11:45, INF-1.03, Prof. Leutheuser

INF 229: Foundations of Deep Learning (5 Credits)

Lecture: Tue, 14:00-16:00, NWI-H10, Prof. Phan  
 Exercises: Wed, 10-11+11-12, FAN-S106, Prof. Phan  
 Thu, 10-11+11-12, NWI-S36, Prof. Phan

INF 305: High Performance Computing (8 Credits)

Lecture: Mon, 8-10, INF-H34, Dr. Werner  
 Wed, 8-10, INF-H34, Dr. Werner  
 Exercises: Wed, 12-14, INF-S112, H. Shatri

INF 315: Robotics II

(Robotik II, 5 Credits)  
 Lecture: Thu, 14-16, INF-S110, Prof. Henrich  
 Exercises: Fri, 12-13, INF-S110, J. Hümmer  
 Tutorial: Fri, 13-14, INF-S110, J. Hümmer

INF 318: Computer graphics III (5 Credits)

Lecture: Tue, 8-10, Online, Prof. Guthe  
 Exercises: Thu, 13-14 + 14-15, INF-S110+S112, K. Liu

INF 320: Parallel algorithms (5 Credits)

Lecture: Mon, 8-10, INF-S110, Prof. Korch  
 Exercises: Fri, 10-12, INF-S110, Prof. Korch

INF 329: Computational Geometry I (5 Credits)

Lecture: Wed, 10-12, INF-S112, Dr. Stehn  
 Exercises: Tue, 10-12, INF-S112, bi-weekly, Dr. Stehn

NEW MODULE: Graph Algorithms

Lecture: Thu, 14-16, INF-H30, Dr. Stehn  
 Exercises: Tue, 10-12, INF-S112, bi-weekly, Dr. Stehn

**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 Large Master Project is needed.

INF 353: Large Master Seminar  
 (Großes Master-Seminar, 8 Credits)

At most one Large Master Seminar is 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](http://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  
BAYREUTH

Valid for **summer term 2026** and **winter term 2025/26**

**Master's program  
in Computer Science**



[www.ai.uni-bayreuth.de/de/studium/master-computer-science/](http://www.ai.uni-bayreuth.de/de/studium/master-computer-science/)