# English Courses at FAU for Computer Science
# Version from 12. January 2023

**This information could change, so please additionally look up more recent information in campo: https://www.campo.fau.de**
**Use our How-To Guide: https://www.informatik.studium.fau.de/studierende/erasmus-incoming-students/#CS-courses-FAU-incoming**

| Winter Term | Summer Term |
|---|---|
| Advanced Networking (only for Master students) | Approximate Computing (only for Master students) |
| Advanced Programming Techniques | Artificial Intelligence II |
| AI-enabled wireless networks | Cognitive Neuroscience for AI Developers |
| Algorithms of Numerical Linear Algebra (only for Master students) | Computational Optics CE & MAOT (only for Master students) |
| Applied Software Engineering | Computational Photography and Capture (only for Master students) |
| Architectures of Supercomputers | Computer Vision (only for Master students) |
| Artificial Intelligence I | Cryptocurrencies 1 |
| Biomedical Signal Analysis (can be found in campo as "Biomedizinische Signalanalyse") | Deep Learning (only for Master students) |
| Coaching agile Teams (only for Master students) | *Deep Learning for Beginners (VHB[1]) (only for Bachelor students)* |
| Cognitive Neuroscience for AI Developers | Global Illumination |
| Communication Systems (can be found in campo as "Kommunikationssysteme") | High End Simulation in Practice (only for Master students) |
| Computational Visual Perception | Human Computer Interaction |
| Computer Architecture (can be found in campo as "Rechnerarchitektur") | Interactive Computer Graphics[2] |
| Computer Graphics | Interactive Visualization Project (only for Master students) |
| Connected Mobility and Autonomous Driving | Introduction to Dependently Typed Programming (only for Master students) |
| Deep Learning (only for Master students) | Introduction to Machine Learning |
| *Deep Learning for Beginners (VHB[1]) (only for Bachelor students)* | Introduction to Network Science |
| Exergames (only for Master students) | Knowledge Discovery in Databases |
| Formal Methods of Software Engineering (can be found in campo as "Formale Methoden der Softwareentwicklung") | Medical Image Processing for Diagnostic Applications (VHB[1]) |

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| **Functional Analysis for Engineers (only for Master students)** | **Medical Image Processing for Interventional Applications (VHB[1])** |
| **Geometric Modeling[2]** | **Parallel Systems (German or English, will be decided in the first or second week of lectures)** |
| **Introduction to Modern Cryptography (can be found in campo as „Einführung in die moderne Kryptographie“ or „ModKrypt“)** | **Programming Techniques for Supercomputers (https://moodle.nhr.fau.de/course/view.php?id=106)** |
| **Knowledge representation and processing (can be found in campo as “Wissensrepräsentation und -verarbeitung”, if you use the search function type in “Wissensrepräsentation”)** | **Quality of Service in Communications** |
| **Machine Learning for time series (can be found in campo as “Maschinelles Lernen für Zeitreihen”)** | **Scientific Visualization[2]** |
| **Medical Image Processing for Diagnostic Applications (VHB[1])** | **Security in Embedded Hardware** |
| **Medical Image Processing for Interventional Applications (VHB[1])** | **Self-organized networks (only for Master students)** |
| **Multimedia Security** | **Simulation and Scientific Computing (can be found in campo as “Simulation und wissenschaftliches Rechnen 1”)** |
| **Music Processing Analysis** | **Speech and Language Unterstanding** |
| **Pattern Recognition** | **Swarm Intelligence** |
| **Physically-based Simulation in Computer Graphics[2]** | **The AMOS Project** |
| **Practical parallel algorithms with MPI (only for Master students)** | **Visual Computing in Medicine 2** |
| **Reconfigurable Computing** | |
| **Simulation and modeling 1** | |
| **Simulation and Scientific Computing (can be found in campo as “Simulation und wissenschaftliches Rechnen 1”)** | |
| **Software Development in Large Projects** | |
| **The AMOS Project** | |
| **Transaction Systems (only possible in combination with “Datenbanken in Rechnernetzen” which is taught in German)** | |
| **Virtual and Augmented Reality (only for Master students)** | |
| **Visual Computing in Medicine 1** | |
| **Visualization[2]** | |
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[1] https://www.fau.eu/education/degree-programmes/virtual-university-of-bavaria-vhb/

[2] In campo these courses may be described as taught in German, but that’s a wrong information, they are taught in English.