

English Courses at FAU for Computer Science

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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>

These are courses at the Department of Computer Science. You can also choose courses of other departments.

Course name	B	M	ECTS	Winter	Summer
Advanced Deep Learning		X	5	X	
A look inside the human body - gait analysis and simulation	X	X	2,5	X	
Advanced Methods of Software Engineering	X	X	5	X	X
Advanced Networking		X	5	X	
Advanced Programming Techniques	X	X	7,5	X	
Algorithms of Numerical Linear Algebra		X	7,5	X	
Approximate Computing		X	5		X
Architectures of Supercomputers / Architekturen von Superrechnern	X	X	5	X	
Artificial Intelligence I	X	X	7,5	X	
Artificial Intelligence II	X	X	7,5		X
Biomedizinische Signalanalyse / Biomedical Signal Analysis	X	X	5	X	
Coaching Agile Teams	X	X	5	X	X
Cognitive Neuroscience for AI Developers	X	X	5	X	X
Communication Systems	X	X	5	X	
Computational Magnetic Resonance Imaging		X	5	X	
Computational Optics			2,5		X
Computational Optics CE & MAOT		X	7,5		X
Computational Photography and Capture		X	5		X
Computational Visual Perception	X	X	7,5	X	
Computer Architectures for Medical Applications		X	2,5		X
Computer Graphics	X	X	5/7,5	X	

Computer Vision		X	5		X
Connected Mobility and Autonomous Driving	X	X	5	X	
Cryptocurrencies I	X	X	5		X
Deep Learning		X	5	X	X
Deep Learning for Beginners (VHB-Kurs)	X		2,5	X	X
Digital Signal Processing		X	5	X	
Introduction to modern cryptography (campo: <i>Einführung in die moderne Kryptographie</i>)	X	X	7,5	X	
Functional Analysis for Engineers		X	5	X	
Geometric Modeling	X	X	5	X	
Global Illumination	X	X	2,5		X
High End Simulation in Practice		X	7,5		X
Human Computer Interaction	X	X	5		X
Inertial Sensor Fusion	X	X	5	X	
Information Theory and Coding		X	5	X	X
Interactive Computer Graphics	X	X	5		X
Introduction to Explainable Machine Learning	X	X	5		X
Introduction to Machine Learning	X	X	5		X
Knowledge Discovery in Databases	X	X	5		X
Machine Learning for Engineers I: Introduction to Methods and Tools	X	X	5	X	X
Machine Learning for Engineers II: Advanced Methods (VHB-Kurs)	X	X	2,5	X	X
Machine Learning for Time Series (campo: <i>Maschinelles Lernen für Zeitreihen</i>)	X	X	5	X	
Medical Image Processing for Diagnostic Applications (VHB-Kurs)	X	X	5	X	X
Medical Image Processing for Interventional Applications (VHB-Kurs)	X	X	5	X	X
Modeling of Control Systems		X	5	X	
Monad-Based Programming	X	X	7,5	NR	NR
Multimedia Security	X	X	5	X	
Nailing your Thesis	X	X	5	NR	NR
Neural Graphics and Inverse Rendering	X	X	5		X
Optimization for Engineers	X	X	5		X

Pattern Analysis	X	X	5		X
Pattern Recognition	X	X	5	X	
Physically-based Simulation in Computer Graphics	X	X	5	X	
Practical parallel algorithms with MPI		X	5	X	
Practical semantics of programming languages (campo: <i>Praktische Semantik von Programmiersprachen</i>)	X	X	7,5		X
Practical software technology (campo: <i>Praktische Softwaretechnik</i>)	X	X	5	X	
Programming Techniques for Supercomputers	X	X	7,5		X
Process oriented information systems (campo: <i>Prozessorientierte Informationssysteme</i>)		X	5		X
Quality of Service in Communications	X	X	5		X
Radar Signal Processing		X	5	X	
Reconfigurable Computing	X	X	5/7,5	X	
Reinforcement Learning		X	5	X	X
Robotics Frameworks	X	X	5	X	
Scientific Visualization	X	X	5		X
Security in Embedded Hardware	X	X	5		X
Self-organized networks		X	2,5		X
Simulation and Modeling I	X	X	5	X	
Speech and Language Understanding	X	X	5		X
Statistical signal processing (campo: <i>Statistische Signalverarbeitung</i>)		X	5	X	
Swarm Intelligence	X	X	5		X
The AMOS Project	X	X	10	X	X
Visual Computing in Medicine 1	X	X	2,5	X	
Visual Computing in Medicine 2	X	X	2,5		X
Visualization	X	X	5	X	

M	For Master students
B	For Bachelor students
NR	Not regular