

# My Computer Science Modules at TU Berlin

Overview of modules completed or in progress at Technical University of Berlin, including content (hyperlinked), ECTS credits, and grades.

Module	Grade	Credits	Description
Introduction to AI	n.a.	6	Machine learning, optimization, linear regression
Stochastics for CS	n.a.	9	Probabilities, distributions, statistics
Formal Languages	n.a.	6	Automata theory, formal grammars
IT Security	n.g.	3	Cryptography, authentication
Distributed Apps	n.g.	6	Cloud computing, microservices
Algorithm Theory	n.a.	6	Complexity, advanced algorithms
Computer Org	1.7	6	Architecture, CPU design
Calculus & LA	n.g.	12	Math foundations
CS Propaedeutics	1.0	3	Intro to CS concepts
Programming	1.7	6	Trees, sorting, C
Discrete Math	2.7	6	Graph theory, number theory
Info Systems	1.3	6	Databases, SQL
Systems Prog	2.0	6	OS concepts, C
Algorithms	2.3	6	DFT, BFT, data structures
Logic	1.0	6	Propositional/predicate logic
Sci Computing	1.7	6	Numerical methods, FFT
Software Eng	3.0	6	Dev methodologies
Networks	n.a.	6	Protocols, distributed systems

**Grades:** 1.0 (best) - 4.0 (pass), increments of 0.3

**n.a.:** Currently taking or grade not yet available

**n.g.:** Passed but not graded numerically