
Master's Program in Computer Science – Master's Track in Software Engineering

Please find further information on how to plan your studies and the least amount of credits per course category in the Study Guide. Each individual study plan needs to be approved by the student's mentor.

Core Focus Courses

At least two Core Focus Courses must be chosen:

Title	Credits	Semester
Concepts of Object-Oriented Programming	6	autumn
Design of Parallel and High-Performance Computing	7	autumn
Software Verification	6	autumn

Elective Focus Courses

Title	Credits	Semester
Distributed and Outsourced Software Engineering	5	autumn
Eiffel: Analysis, Design and Programming	4	autumn
Reconfigurable Computing Systems	4	autumn
Separation Logic	3	autumn
Advanced Compiler Design	7	spring
Concepts of Concurrent Computation	7	spring
How to Write Fast Numerical Code	6	spring
Static Program Analysis	4	spring
System Construction	4	spring

Seminar in Focus

Title	Credits	Semester
Software and Security Testing	2	autumn
Research Topics in Software Engineering	2	spring

Elective Computer Science Courses

Of all Master level courses offered by D-INFK, at least one course must be chosen.

Inter Focus Courses

At least two of the following three Labs must be chosen:

Title	Credits	Semester
Advanced Systems Lab	6	autumn
Algorithms Lab	6	autumn
Computational Intelligence Lab	6	spring

Elective Courses

All Master level courses offered by ETH Zurich, EPF Lausanne and the University of Zurich may be chosen. Please see the Study Guide for restrictions on language courses.

GESS Courses

One course offered by GESS: www.gess.ethz.ch

Master's Thesis

The supervisor of your Master's thesis must be a member of your specialization area of D-INFK.

Mentors

Prof. Peter Müller
Prof. Jürg Gutknecht
Prof. Thomas Gross
Prof. Bertrand Meyer
Prof. Markus Püschel
Prof. Martin Vechev