
Master's Program in Computer Science – Master's Track in Computational Science

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
Computational Biology	6	autumn
Multiscale Modeling and Computation	6	autumn
How to Write Fast Numerical Code	6	spring

Elective Focus Courses

Title	Credits	Semester
GPU, Multi/Many Core Computing I: Introduction to HPC	7	autumn
Computer Graphics	6	autumn
Machine Learning	6	autumn
Mathematical Modeling of Physical Systems	4	autumn
Spatiotemporal Modeling and Simulation	5	spring
Parallel Numerical Computing	6	spring
Numerical Simulation of Dynamic Systems	4	spring

Seminar in Focus

At least one Seminar must be chosen:

Title	Credits	Semester
Computational Science	2	autumn
Advanced Topics in Computer Graphics and Vision	2	autumn
Computational Science	2	spring
Advanced Methods in Computer Graphics	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. Gaston Gonnet

Prof. Peter Arbenz

Prof. Ivo Sbalzarini

Prof. Markus Püschel

Prof. Joachim Buhmann

Prof. Markus Gross

Prof. Marc Pollefeys

Prof. Jörg Stelling