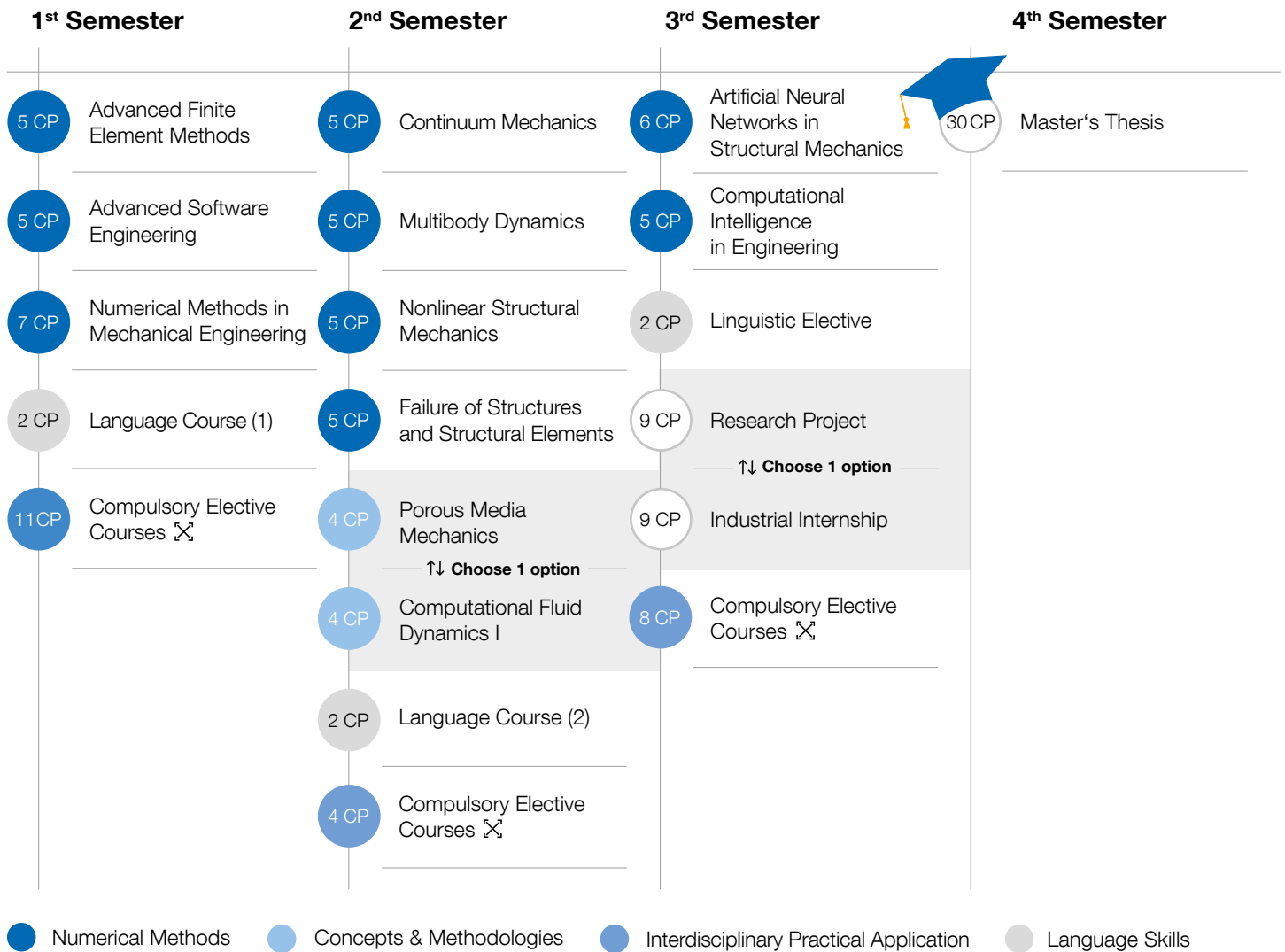


Master of Science (M.Sc.) CAME I Computer Aided Conception and Production in Mechanical Engineering

Track: **Conception**



\otimes Compulsory Elective Courses

Winter Semester

Computational Fluid Dynamics II	3 CP
Computational Methods for Advanced Materials and Structures	5 CP
Fundamentals of Lightweight Design	6 CP
Machine Design Process	5 CP
Management and Engineering Perspectives	5 CP
Modeling, Model Reduction and Simulation in Laser Processing – Application	5 CP
Molecular Mechanics and Multi-Scale Modelling of Materials	5 CP
Practical Introduction to FEM-Software I	5 CP
Tensor Algebra and Tensor Analysis for Engineering Students I	5 CP

Summer Semester

Finite Element Methods in Lightweight Design	5 CP
Intelligent Monitoring of Engineering Systems	5 CP
Modeling, Model Reduction and Simulation in Laser Processing – Laser	5 CP
Practical Introduction to FEM-Software II	5 CP
Simulation of Discrete Event Systems	5 CP
Tensor Algebra and Tensor Analysis for Engineering Students II	5 CP