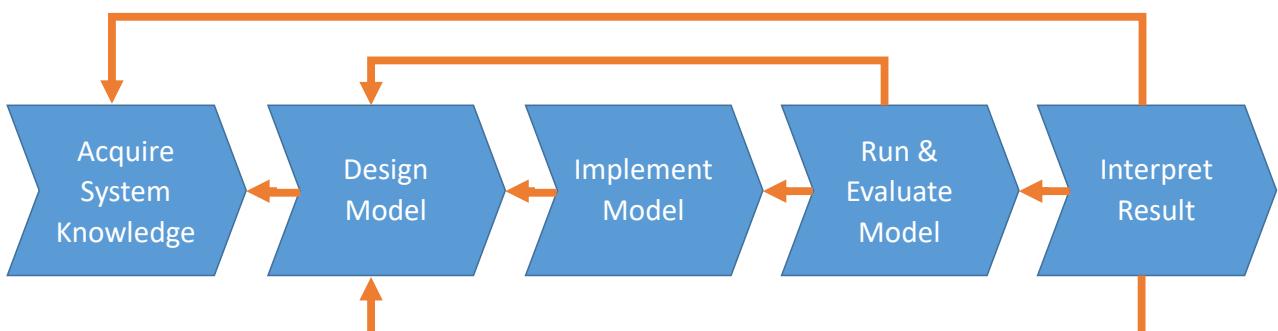


A model for Modelling

Oscar van Vliet, Urs Brändle | ETH teaching and Learning Fair 2018

Goal

We are working with lecturers and students to create an evidence-based modeling curriculum for environmental sciences students at ETH. To monitor our progress we are building and testing a modeling competence inventory (MCI) to track students' progress in developing modelling skills.

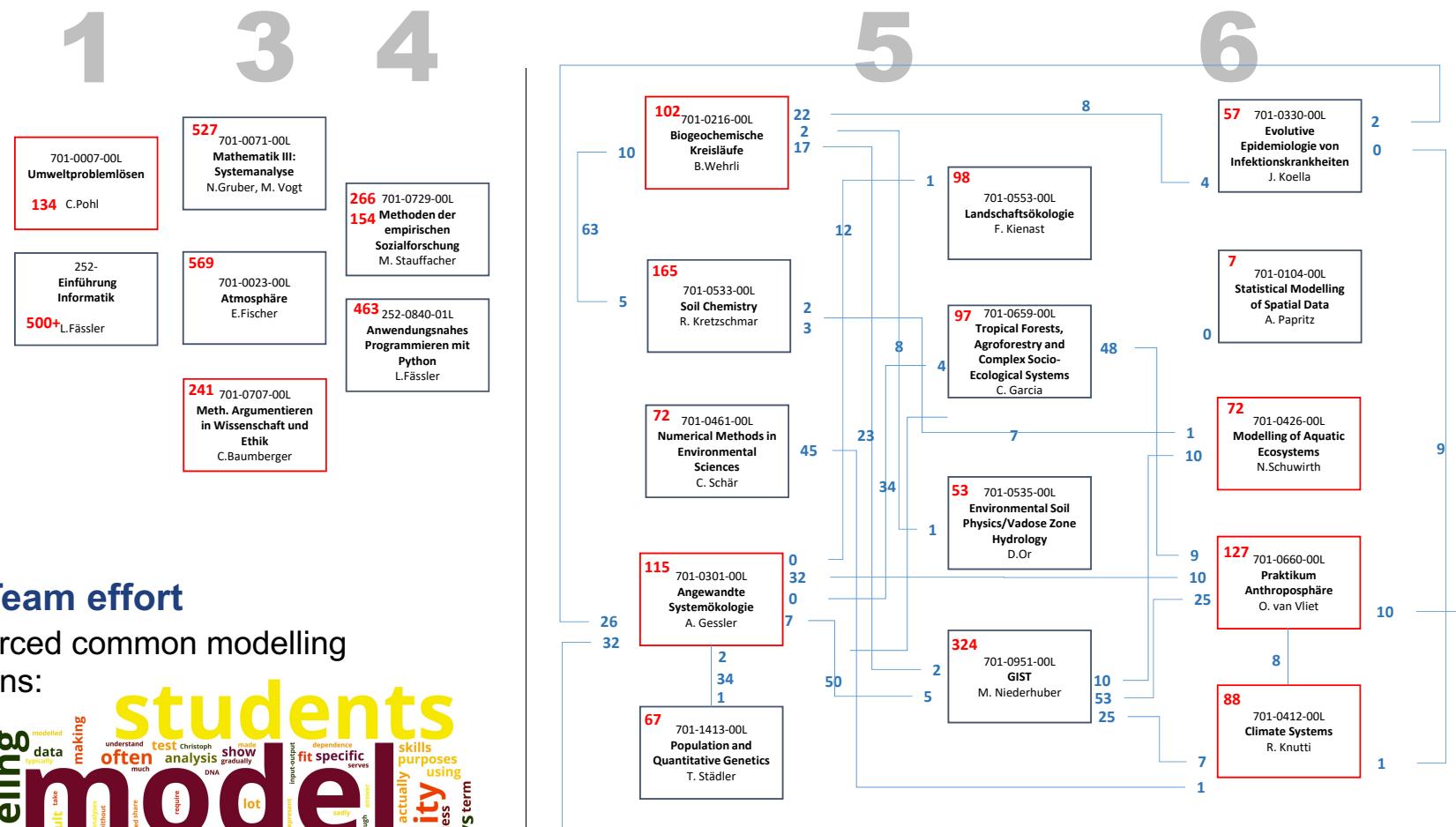


Approach

Curriculum-wide: modelling courses build on each other

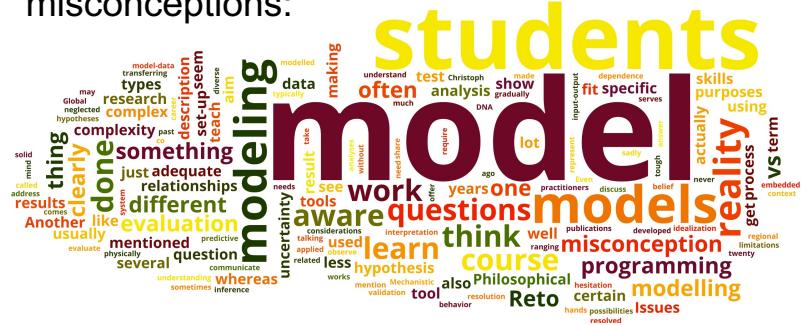
Collaborative: interviews and workshops with lecturers, students & alumni

Evidence-based: monitor student progress with a model competence inventory (MCI)



Team effort

We crow-sourced common modelling misconceptions:



Curriculum: We use course booking history to analyse study paths and build a community of practice network of modeling instructors

