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From a discipline-oriented year 1 to an interdisciplinary mathematical modeling course

For many years the science study programmes at the University of Southern Denmark had a common first year, called the Science Year, consisting of a number of courses in calculus, physics, chemistry and biology. In connection with an extensive reform project, the Science Year was changed to consist of a course centered around project work and two large courses. One of these was the course in interdisciplinary mathematical modeling. In the presentation, I present the didactical ideas of the course, as well as how the implementation of the course was supported with a didactic model for instruction and competence development of teachers including workshops and seminars.