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Mathematics, technology and curriculum: a complex interaction

In reflecting about the curriculum as it is being developed and implemented in our university, it is striking that a large proportion of the courses are close to those I attended as an undergraduate in the early eighties. This is mostly true of the standard introductory mathematics courses, less so for the optional ones, and much less so for many of our statistics courses. Where courses differ, it is sometimes only in the way the material is being covered, and sometimes the content itself is very different.

In my presentation, I will present my reflections on the challenges posed by the availability of new technologies for some of our teaching and how we addressed it in some of our courses, including large service courses. I will also share my reflections on some of the differences between mathematics and other sciences which may be relevant for our discussions.