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Engaging First Year Engineers in the Learning of Calculus

I will discuss curriculum adjustments and changes in course format implemented at Queen's to deal with the unevenness in student background and intellectual maturity, and to allow greater synergy with the physics course taken concurrently by the students. The curricular adjustments include a web-based self-study short course to bring all students up to the level of Ontario graduates. They also include starting the year with parametrized curves, doing integration in week 5, and teaching the sequences and series unit entirely as a unit on power series. The format includes interactive notes, concept questions and the use of clickers.