Using Technology to Flip Calculus

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Abstract:

In this session we will describe how we used a variety of technological tools, including videos, tablets, mathematical applications, WeBWork, clickers, and virtual graphing calculators, to invert instruction in our calculus courses. It means the delivery of content is mostly moved outside of class via videos and the homework such as problem sets is shifted into the classroom. We will also discuss lessons learned from an exploratory study of the benefits and challenges of flipping mathematics courses.

Hardware needed: Projector that can connect to a laptop (PC).

Software: no need, we will bring our own laptop.