At Wentworth Institute of Technology, several engineering majors take physics I and calculus I at the same time. In the past, these courses being out of synch have caused difficulties for biomedical and mechanical engineering students taking them as co-requisites. In our presentation, we will report on the materials we developed and preliminary results on the impact of our course.

Our team developed curriculum for a synergetic inquiry-based course integrating physics and calculus, such that each subject reinforces the other. Students obtain a visual or physical “picture” to support the comprehension of calculus; likewise, physics will be presented not merely as an application of calculus but as its raison d’être. In summary, we are teaching calculus through the lens of physics using context-driven and inquiry-based course material.

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