

1106-D5-2541 **Elizabeth A Miller*** (elizmiller@math.osu.edu), 100 Math Tower, 231 W 18th Ave,
Columbus, OH 43210, and **Carolyn Johns** (johns.125@math.osu.edu). *Flipped and Flexible
Calculus: A Different Calculus Experience.*

Ohio State teaches a section of Calculus 1 and Calculus 2 each semester in our new Flipped and Flexible format. This format is more flexible for student schedules, is able to be taken from a distance, is open to high school students for post-secondary credit, and implements the educational theories of active learning in the flipped classroom. The traditional lectures are completely replaced with online lessons which include videos, scaffolding, quiz questions, and choices for students such as what they want to learn next or how many examples they would like to see. Students are able to review these lessons as many times as they like. Recitation sections feature guided group work, allowing students to master concepts with instructor assistance. Students can attend recitations from a distance when necessary. This format reduces class time from 5 hours a week to 2 hours a week. The goal of this course format is to assist students who need a more flexible format without sacrificing any of the academic depth or rigor of the course. Students are supported from a distance through online tutoring, email, and a class discussion board in Piazza. This course format allows students to perform similarly on common department exams to students in more traditional settings. (Received September 16, 2014)