

1135-H1-1381      **Casey Mann\*** ([cemann@uw.edu](mailto:cemann@uw.edu)), School of STEM, 18115 Campus Way N.E., Box 358538,  
Bothell, WA 98011. *Two Flipped Introductory Real Analysis Courses*. Preliminary report.

In winter 2017 we designed two flipped courses on introductory real analysis. One course was 100% flipped and was offered in a 50% hybrid online format, while the other course was 50% flipped and 50% lecture. Both courses used in-class time to help students collaboratively develop proof writing skills and to get started on what we called “mastery” homework problems (proofs in analysis) through group work, while pre-class time was spent on reading comprehension and basic computational and definitional learning. We will present the structure of these courses and how we used technology to facilitate the approach. We also provide data comparing final exam scores, homework averages, and GPAs of the students in the flipped courses with previous students taught in a traditional lecture format. (Received September 21, 2017)