

1154-N1-174 **Katrina Palmer*** (palmerk@appstate.edu), 121 Bodenheimer Dr, Boone, NC 28608, and **Katie Mawhinney** and **Greg Rhoads**. *Co-requisite and Fall-back Courses for Calculus Students*. Preliminary report.

The Department of Mathematical Sciences at Appalachian State University has developed several support options for students who are underprepared for Calculus I. This talk will describe the Department's calculus placement, then share results from the 1-hour co-requisite support course and the design of a fall-back course that starts about a month into the semester. This fall-back course is intended for students who realize early on that they are in over their head in Calculus I. Without penalty students can drop Calculus I and enroll in the fall-back course to help prepare them for calculus in the next term. (Received August 19, 2019)