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Supporting the Algebraic Reasoning of Calculus Students. Preliminary report.

The Department of Mathematical Sciences at Appalachian State University is developing co-requisite courses to support students enrolled in both the first and second semesters of calculus. This talk will share the design of these courses, and the preliminary results of student success from the first calculus support course. The majority of students who enroll in *Calculus 1 with Analytic Geometry* at Appalachian, are not mathematics majors. Over half intend to major in biology, environmental science, or computer science. The structure of these support courses will be shared within the framework of all the recent initiatives by the Department, including a revision of the calculus placement test, the use of online adaptive learning programs, and the support courses. (Received September 24, 2018)