At Missouri University of Science and Technology, less than 10% of students with a D or F in Calculus I at midterm finished the course with a grade of C or better in recent semesters. To address this major concern, we introduced a new course, Success for Calculus, in Fall 2015. Success for Calculus uses the second half of the semester to improve the overall preparedness of students while reinforcing the calculus they saw during the first half. We will look at lessons learned from the first three semesters of this exciting new course and examine how students have progressed after completing Success for Calculus. (Received September 20, 2016)