



Project Title: Online Educational Resources for Incoming First Year Calculus Students

Project Summary (150 words maximum)

Over 3500 students enrol in first-year calculus courses at UBC each year. In the 2010/2011 academic year, 9% failed and 45% received a grade of "C" or lower. This was even more pronounced in MATH 180 where 21% of students failed in 2010/2011. Moreover, the average final grade obtained by Faculty of Arts students in three of the UBC first year calculus courses was 60%, 53%, and 59.2%^[0].

Two main obstacles prevent student academic success: (1) gaps in their knowledge base that need to be revealed and corrected^[1], and (2) reliance on ineffective study methods^[2]. We propose to develop an online diagnostic test and a pre-calculus program that would help incoming first-year students make a successful transition from high school to university mathematics.