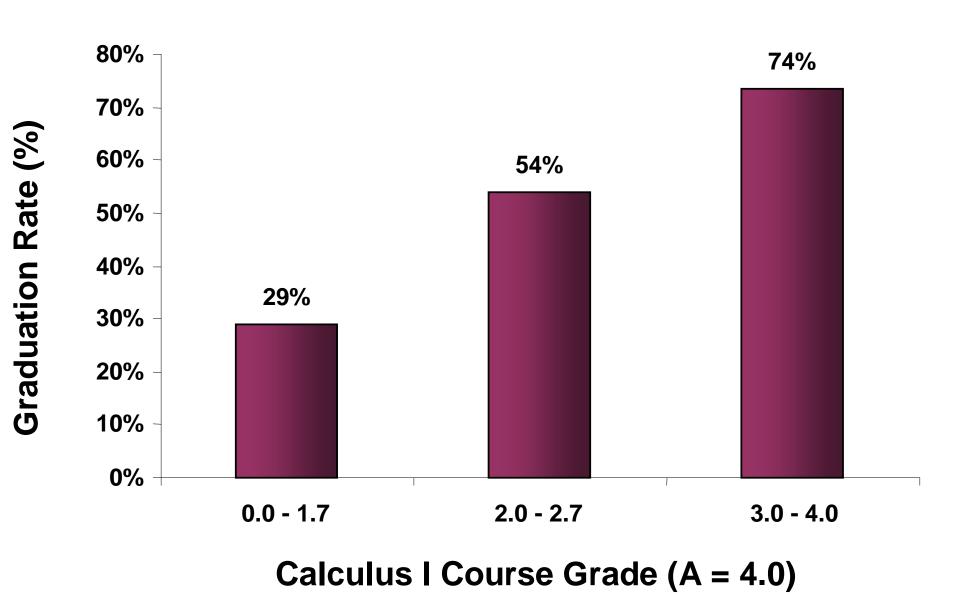




## Abstract

Given that performance in Calculus I is highly correlated to graduation success for engineering students at UM, we have implemented an intervention strategy to increase the student success rate in that course.

6-Year Graduation Rates of Engineering Students vs. Calculus I Grade (first attempt)



### **Methods**

- Collaborate with Mathematics Dept. to identify all engineering students who receive C- or below on first Calculus I (Math 115) exam
- Contact those students and create group advising sessions conducted by academic advisors, learning center director, and calculus course director
- Offer option of half-term intensive pre-calculus refresher course (Math 110) with the following advantages:
  - Students receive 2 credit hours
  - Current enrollment in Math 115 is expunged with no detriment to GPA
- Work with calculus course director to assign experienced and effective instructor to the precalculus refresher course

# **Intervention Strategy for Improving Success Rates in Calculus**

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