

ABSTRACT and INFORMATION PAGE

1. Primary Applicant: Bergen Community College
Partner: Union County College
2. Alternatives to Math Placement, an Unprecedented Program (AMP UP)
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5. Bergen Community College, in partnership with Union County College, both located in north-central New Jersey, propose a strategy implementing two-alternative remedial math teaching methods in place of the present *traditional lecture structure*. The project is a randomized controlled trial that will target 8,400 first time, degree-seeking students placed into remedial math as per the Accuplacer exam. They will be divided into three groups, one control and two treatment groups. Treatment Group #1 utilizes an adaptive learning software, ALEKS, within a short-term pre-semester bridge program followed immediately by enrollment into a college level math course, and Treatment Group #2 enrolls students, regardless of placement, immediately into a college-level math course with co-requisite one-hour weekly tutorial support. The Control Group will follow the traditional lecture structure currently in place at each institution. The goals of this program are to: 1) increase the 3-semester retention rates of first time students placing into remedial math, and 2) decrease time to completion of first time full time students placing into remedial math. This study will be carried out in an identical manner at each institution and will produce causally valid results. The ultimate purpose of this study is to produce scalable innovative approaches that utilize low-cost, effective methods for math remediation.
6. Absolute Priority: Absolute Priority 1: Improving Teaching and Learning
Completive Priority: Implementing Low Cost-High Impact Strategies to Improve Student Outcomes
7. The project partners both have open Title V Grants as Hispanic Serving Institutions and meet the criteria as Minority-Serving Institutions.
8. Unduplicated number of test group participants over 4 years: 5,600
Unduplicated number of control group participants over 4 years: 2,800
Total number unduplicated all groups: 8,400