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## CoRequisite Academy Mathematics



What Data says ABOUT THE PATHWAYS

The Graduate Transcript Graph

The Graduate Transcript Graph


## 10,000 USG

Students
2,500 who either
completed their first credit bearing math and/or writing class or completed neither during their first academic year

90

## English and $\mathrm{M} \alpha \tau \mathrm{h}$




## System-wide Math Completion for students beginning in Developmental Mathematics



## System-wide Math Completion for students beginning in Developmental Mathematics



ACT Math Subscores


Completion of Gateway Math by ACT Sub-score Community College Pre-requisite Model vs. Co-requisite Model



System Comparison of Success in Gateway Mathematics Classes


System Comparison of Success in Gateway Math Classes


System Comparison of Success in Gateway English Classes


Distribution of First Mathematics Course Attempted (within first two academic years)


- No Math Course

■ Math 1001

- Math 1101
- Math 1111

■ Math > 1111

Distribution of First Mathematics Course Attempted (within first two academic years)


■ No Math Course

- Math 1001
- Math 1101
- Math 1111

■ (Eventually passed Calculus)
■ Math > 1111

System Comparison of Success in Gateway Mathematics Classes


System Comparison of Success in Gateway Mathematics Classes


African American Students

## System Comparison of Success in Gateway Mathematics Classes



## System Comparison of Success in Gateway Mathematics Classes




## Benjamin Bloom



## The 2 sigma Problem



## Controlled Study at University of Mississippi (2006)

数 Hawkes Learning System
2 Fall sections of College Algebra
100 students
. MyMathlab
2 Fall sections of College Algebra
113 students

* No software

4 fall sections of College Algebra
200 students

## Final Exams



## Final Exams



## Final Exams



## Final Exams



## Final Exams



CoRequisite Math: All Students
Frequency of \% Credit Hours Earned Bin by ACT Math Passed Gateway Math (C and above=Pass)


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CoRequisite Math: All Students
Frequency of \% Credit Hours Earned Bin by ACT Math Didn't Pass Gateway Math (D and above=Pass)


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## Productive Academic Mindset

## Perceived purpose of cours ework

Feel connected to their institution

Believe they are capable of learning the

Confidence interacting with F aculty and S taff

## Perceived Purpose of Coursework

Low Perception High Perception Difference Effect size

| Math <br> Co- Requisite <br> Success Rate | $60.2 \%$ | $66.5 \%$ | 6.3 pp |
| :---: | :---: | :---: | :---: |
| Writing <br> Co- requisite <br> Success Rate | $61.3 \%$ | $70.8 \%$ | 9.5 pp |
| Earned Hour\% | $65.1 \%$ | $72.5 \%$ | 7.4 pp |
| Fall to Spring <br> Retention Rate | $72.4 \%$ | $77 \%$ | 4.6 pp |

## USG Momentum Year

Making a purposeful program choice
Creating a productive Academic Mindset Attempting the first 30 hours of a Clear Pathway
Attempting 9 hours in Academic Focus
Complete initial English and M $\alpha \tau$ h


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