STUDENT PERFORMANCE IN REDESIGNED DEVELOPMENTAL MATH COURSES

STUDENT SUCCESS SNAPSHOT #26
June 18, 2013
OVERARCHING GOALS OF DEVELOPMENTAL REDESIGN

• **Reduce** the need for remediation
• **Decrease** the length of time spent in developmental courses
• **Increase** the proportion of students reaching success measures of graduating or transferring
DEVELOPMENTAL MATH ENROLLMENT AND COMPLETION

Source: Virginia AtD 2001-2005 cohorts, tracked for three years

- Enrolled: 73%
  - Passed: 50%
  - Not enrolled: 19%

- Not enrolled: 22%

- 3+ levels below
  - Enrolled: 73%
  - Passed: 50%
  - Not enrolled: 19%

- 2 levels below
  - Enrolled: 34%
  - Passed: 24%
  - Not enrolled: 6%

- 1 level below
  - Enrolled: 18%
  - Passed: 18%
  - Not enrolled: 10%

- GK Algebra
  - Enrolled: 10%
  - Passed: 14%
  - Not enrolled: 4%
  - Not completed: 2%

TOTAL PASSED: 6%
Not completed: 4%
PREVIOUS DEAR COHORT PLACEMENT

**2006**
- Math Only, 29%
- English Only, 6%
- Math and English, 27%
- College Ready, 14%
- Did Not Take, 24%

**2007**
- Math Only, 29%
- English Only, 6%
- Math and English, 28%
- College Ready, 15%
- Did Not Take, 22%

Cohort: First-time in College Entering During A Fall Term
PREVIOUS DEAR COHORT DEVELOPMENTAL PROGRESSION

2.1: Percent Passing Developmental Course on First Attempt

Cohort: First-time in College Entering During A Fall Term
STUDY COHORT

COHORT PROGRESSION

Students Who Took VPT-Math and Enrolled Spring 2012

- Attempted Developmental Math
  - Completed All Requirements
  - Did Not Complete All Requirements
    - Did Not Complete All Requirements, but Enrolled in College Math
  - Did Not Attempt Developmental Math
    - Enrolled College Math Only
    - Did Not Take Any Math
ENROLLMENT BEHAVIOR OF STUDENTS WHO PLACED INTO DEVELOPMENTAL MATH

- 66% Needed and Attempted Developmental Math from Spring 2012 to Spring 2013
- 8% Needed Developmental Math, Enrolled Directly in College Math
- 26% Needed Developmental Math but Did not Attempt Any Math
VPT-MATH PLACEMENT

CAT PLACEMENT T1

D1: Fractions
D2: Decimals
D3: Pre-Algebra
D4: Basic Algebra
D5: Graphs and Systems

CAT PLACEMENT T2

D6: Exponents, Factoring, and Polynomials
D7: Rational Expressions and Equations
D8: Rational Exponents and Radicals
D9: Functions, Quadratic Equations

CALCULUS TEST

Placed
Placed
Placed
Placed
ENROLLMENT BEHAVIOR BY PLACEMENT

Developmental Math Outcomes for Students Placing in Units 1-5

- Attempted developmental math: 71%
- Did not attempt any math: 26%
- Enrolled only in college-level math courses: 3%

Developmental Math Outcomes for Students Placing in Units 6-9

- Attempted developmental math: 36%
- Did not attempt any math: 28%
- Enrolled only in college-level math courses: 36%
COHORT: SUCCESS IN DEVELOPMENTAL COURSES

• Over 68% of students who placed into developmental math attempted at least one of the units they needed in the first four terms.
OUTCOMES FOR STUDENTS ATTEMPTING DEVELOPMENTAL MATH WITHIN FOUR TERMS OF PLACEMENT

Placed in Units 1-5
- Completed required developmental units: 32%
- Did not complete developmental math, but enrolled in college-level math course: 7%

Placed in Units 6-9
- Completed required developmental units: 41%
- Did not complete developmental math, but enrolled in college-level math course: 13%

Legend:
- Blue: Completed required developmental units
- Red: Did not complete developmental math, but enrolled in college-level math course
COHORT: READINESS FOR COLLEGE-LEVEL MATH COURSES

• 56% of students in the total study cohort either successfully completed their required developmental math units or were college-ready by the end of spring 2013.
OVERALL: PROGRESS TOWARD COLLEGE-LEVEL MATH COURSES

• Students enrolling in developmental math who made progress increased from 50% in fall 2011 to 65% in fall 2012.
OVERALL: ATTEMPTED COMPARED TO COMPLETED

• The average number of developmental math credit hours attempted reduced from 4.2 in fall 2011 to 2.8 in fall 2012.

• The average number of developmental math credit hours completed within a semester stayed the same.
UPCOMING RESEARCH

Future snapshots will continue to track this first group of VPT-Math test takers to look at the following:

• Success in College-Level Math Courses (December 2013)
• Initial Graduation and Transfer (June 2014)
QUESTIONS?