The primary goals of the redesign were to increase success rates, better prepare students for college-level courses, and increase the ability of students to move quickly through the developmental math program. Data from a fall 2009 department report indicate that the redesign is a success. Figures 1–4 show significant increases in completion and pass rates after redesign with MyMathLabPlus in Elementary Algebra, Intermediate Algebra, College Algebra, and Finite Math. Both Elementary and Intermediate Algebra experienced completion rate increases of approximately 27 percent over the traditional lecture courses. College Algebra completion rates increased by 17 percent; Finite Math completion rates increased by nearly 11 percent.

In addition, the report indicates that students who took developmental math courses before advancing in the math sequence outperformed those students who placed directly into College Algebra, Statistics, or Finite Math. Completion rates, passing rates, and even the course grade point averages in these courses experienced increases.

By redesigning its math program into modular units, each emphasizing mastery learning and requiring MyMathLabPlus for homework and assessments, CSCC has significantly increased its completion and pass rates and positively impacted subsequent success.

**KEY TAKE-AWAY**

Cleveland State Community College

**Product Used**
MyMathLabPlus

**Course Names**
Elementary Algebra, Intermediate Algebra, College Algebra, Finite Math

**Credit Hours**
Three

**Assessments**
Faculty at Cleveland State Community College (CSCC) customizes MyMathLabPlus with their own videos, and they hand select homework problems. Students must score at least 70 percent before advancing to the next module.

- 10 percent Participation
- 30 percent Homework
- 50 percent Quizzes
- 5 percent Midterm exam
- 5 percent Final exam

**Use of MyMathLabPlus**
MyMathLabPlus is used for homework, quizzes, and tests. The program’s View an Example and Help Me Solve This features are enabled during homework assignments. Pre-requisites promote mastery learning and keep students on track by ensuring that they don’t work too far ahead.

Use of MyMathLabPlus contributes 100 percent to a student’s final course grade.
The data are incontrovertible: more students are completing and passing both developmental and college-level math courses since the MyMathLabPlus redesign was launched. More than simply figures on a page, the numbers reflect an increase in student learning and student success—and an increased likelihood of graduating from college.

From an institutional standpoint, the redesign is a win-win deal for everyone. Not only are students achieving more, but also the redesign format has resulted in a 20 percent decrease in instructor costs.

Submitted by Karen Wyrick, Associate Professor and Math Department Chair
Cleveland State Community College
and John Squires, Associate Professor
Chattanooga State Community College

The Student Experience

Student survey comments reflect CSCC students’ positive attitude toward MyMathLabPlus.

- “MyMathLabPlus is an easy way to learn and better for quicker students like myself.”
- “MyMathLabPlus explained things much better than other online math classes I’ve taken.”
- “MyMathLabPlus is flexible enough for students who have busy lives outside of school. It’s also great for students who progress faster than others.”
- “I am very grateful for MyMathLabPlus. I learned at my own pace and had help when and where I needed it. I plan to take more math classes.”

Conclusions

The data are incontrovertible: more students are completing and passing both developmental and college-level math courses since the MyMathLabPlus redesign was launched. More than simply figures on a page, the numbers reflect an increase in student learning and student success—and an increased likelihood of graduating from college.