

Colleges in the Kentucky Community & Technical College System are decreasing the number of remedial math courses they offer in 2017. In order to continue to provide math support to students whose skills are not at the college level, Owensboro designed a co-requisite course that used EdReady for developmental math content review during the first three weeks of a semester-long college-level math course.

INSTITUTIONAL PROFILE

Owensboro Community & Technical College (OCTC) is a public, two-year college that is one of 16 institutions that make up the Kentucky Community and Technical College System (KCTCS). OCTC serves approximately 4,300 students and awards associate degrees, diplomas, and certificates in a variety of disciplines.

IMPLEMENTATION

In fall 2016, the math department at OCTC piloted EdReady for co-requisite math support. They created an EdReady curriculum that appended MAT 96 Supplemental Mathematics (2 credits) to MAT 126 Technical Math for Algebra and Trigonometry (3 credits).

On the first day of class, students took an EdReady diagnostic test that included competencies from MAT 65 Basic Algebra and MAT 85 Intermediate Algebra. Once the students completed their EdReady diagnostic, EdReady reported what math competencies the students had already mastered and created individualized learning paths to help the students master any competencies that needed remediation.

Students then spent the first three weeks of the semester completing their individualized learning paths as part of the MAT 96 portion of the class. Students worked in class on the computer completing coursework at their own pace with firm due dates.

After students mastered all MAT 96 competencies in EdReady, they took the Kentucky Online Testing (KYOTE) placement exam. Students whose resulting KYOTE scores placed them in a class higher than MAT 126/96 were allowed to drop that course and enroll in a higher-level course.



DETAILS

WHO WAS SERVED: Community college students needing math remediation

WHEN: Fall 2016

NUMBER OF STUDENTS: 16

IMPLEMENTATION: On-campus, self-paced (with due dates), lab-based course

RESULTS: 93.7% of the students passed the remedial math portion of the course, MAT 96, then 81% either passed the 126 portion of the course or transferred to a higher-level math course

INSTRUCTIONAL APPLICATION: Co-requisite course incorporating remediation into a credit-bearing, college-level math course

RESULTS

16 students who would otherwise be enrolled in MAT 65 enrolled in the paired MAT 126/96 course. Of those, one student withdrew and 15 passed the MAT 96 portion of the course (which combined content from MAT 65 and MAT 85). This resulted in a pass rate of 93.7%; the historic pass rate for MAT 65 alone is approximately 41%.

After the MAT 96 portion of the class concluded, those 15 students took the KYOTE exam. High scores from that exam resulted in three students transferring from MAT 126/96 to higher-level math courses (two enrolled in MAT 150/100 and one in MAT 146/96). Another two students did not complete MAT 126 and were allowed to re-enroll in the spring to complete the remaining coursework. The final 10 of the 15 students stayed in MAT 126/96 and passed the full course.

WHAT'S NEXT?

Owensboro is now expanding this co-requisite approach, pairing MAT 96 with MAT 146 and MAT 126, and has increased to four sections for spring 2017. ■