

The background features a large white circle in the center, partially overlapping a light blue area on the left and a light pink area on the right. Below the white circle is a dark blue curved shape.

**OER MATH
AT HCC**

WHAT NEEDS TO BE REPLACED?

Textbooks

Homework Systems

Calculators

Reps and Support

TEXTBOOKS

- OpenStax (<https://openstax.org/>)
 - Developmental Math
 - Algebra, Trigonometry, and Calculus
 - Gen Ed Math ([Contemporary Mathematics](#) and [Introductory Statistics](#))
- LibreTexts (<https://libretexts.org/>)
 - Business Calculus ([Applied Calculus](#))

HOMework SYSTEM

- MyOpenMath (<https://www.myopenmath.com>)
 - Freely accessible online
 - Or host a local version
 - Integrates seamlessly with Canvas
 - Also works as a standalone LMS
 - Reuse, remix, or create
 - Search and select from existing questions
 - Edit existing questions
 - Build questions from scratch

CALCULATORS

Explore which tool is the best fit for each topic:

- Desmos (<https://www.desmos.com>)
 - Graphing-based applications
 - Statistics (descriptive and inferential)
 - Regression (linear and non-linear)
- Symbolab (<https://www.symbolab.com>)
 - Algebra/Calculus-based applications
- WolframAlpha (<https://www.wolframalpha.com>)
 - Algebra/Calculus-based applications
 - Rounding inconsistencies can occur

REPS AND SUPPORT

We need “OER Reps”

- Fall 2025 Sabbatical
 - MyOpenMath Asynchronous Training course
 - Faculty OER Discussion Group
- Two Faculty taught a course using my materials in Fall 2025

RESULTS

Since Spring 2021:

- 4 courses developed using 100% OER
 - Mathematical Literacy (Dev Math)
 - Explorations in Math (Gen Ed Math)
 - College Algebra for Business and Social Science
 - Calculus for Business and Social Science
- 706 students have saved approx. \$54,326.00

COMPARING STUDENT PERFORMANCE

Business Calc
Pre-OER (Fall 2011-Fall 2020)
n = 723 students

Average pass rate: 79.38%

Average non-pass rate: 10.64%

Average W rate: 11.49%

Business Calc
Post-OER (Spring 2021-Present)
n = 460 students

Average pass rate: 76.77%

Average non-pass rate: 13.84%

Average W rate: 10.25%

*No statistically significant differences
($\alpha = 0.05$)

QUESTIONS?

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