

PROJECT BACKGROUND

- OER adoption for Math 216 Introduction to Statistics
- Project Goals
 - Reduce the cost of materials for students to less than \$40.
 - Find a resource that is both low-cost and adaptive.
 - Find a resource that meets the accessibility requirements for DSS.

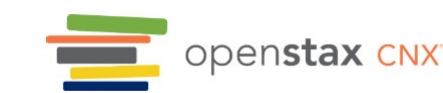


IMPACT (CON'T.)



IMPLEMENTATION

- Textbook Selected
 - Open-Stax Statistics
- Additional Resources
 - Knewton Alta
 - Adaptive learning platform
 - Homework assignments, quizzes, exams, additional instruction, and supplemental materials available
- External Support
 - Knewton Training
 - Web Training
 - On-campus visits and training from Knewton
 - Knerd Camp
 - Conferences: AMATYC, MMATYC, ICTCM
- Internal Support
 - Learning Center, DSS, Bookstore, Test Center, Blackboard Administration, Adjunct Training
 - OER PLC
- New Resources: Guided notes and group classwork activities were designed to pair with the Open-Stax textbook and Knewton coursework.



LESSONS LEARNED

- Successes
 - Improvement in GPA
 - Decrease in DFW rates
 - All students have access to the materials on the first day of class.
- Challenges
 - Supplemental Materials are limited with the Open-Stax book and Knewton is still in the developing process.
 - Getting the bookstore, Learning Center, and DSS familiar with a new resource for my classes.
 - Getting familiar with a new online platform.
- Advice for others
 - Find a resource to adopt, creating from scratch can be overwhelming.
 - Team up with another colleague and adopt materials together.
 - Start or join a OER PLC at your institution.
 - Submit an application for the M.O.S.T. Mini-Grant.



IMPACT

- Initial Courses: Introduction to Statistics
 - Number of sections impacted in Fall 2018: 3
 - 75 students
- Cost of Materials prior: \$244.25
- Cost of Materials now: \$9.99-\$39
- Number of new sections through Fall 2019
 - Statistics
 - Spring 2019- 1, 26 students
 - Summer 2019- 3, 52 students
 - Fall 2019- 9, 270 students
 - College Algebra Summer 2019- 1, 30 students
 - Pre-statistics Fall 2019- 5, 200 students
 - Co-requisite statistics Fall 2019- 1, 15 students
- 473 students impacted as of Fall 2019 with a savings of \$205.25 per student...Total savings as of Fall 2019 ... **\$97,083.25!!!**



FUTURE PLANS

Future plans

- Increase more sections of Statistics using the Open-Stax/Knewton resources.
- Continue to work with the OER PLC on campus at Harford Community College to promote collaboration and development of additional OER and supplemental resources.
- Add OER to additional mathematics courses.
- Continue to develop supplemental materials that pair with the OER currently in use at HCC in Introduction to Statistics.