**Affordable Learning Georgia  
Open Mathematics in Action**

**Final Report**

*Instructions:*

*A. Your final report submission must include three separate component files:*

1. *Completed report form. Please complete per inline instructions. The italicized text is provided for your assistance; please delete the italicized text before submitting your report.*
2. *Syllabus with learning outcomes and links to the materials as used per day, week, or unit, organized chronologically.* 
   1. *For each resource, give the title, author, Creative Commons licenses (if appropriate), and freely accessible URL to the material. Include all open-access links to all adopted, adapted, and newly created course materials.*
3. *Supporting data on the impact of your Textbook Transformation (survey, analyzed data collected, etc.)*

*B. Go to* [*http://affordablelearninggeorgia.org/site/final\_report\_mathematics*](http://affordablelearninggeorgia.org/site/final_report_mathematics) *to submit these components of your final report. Follow the instructions on the webpage for uploading your documents. You will receive a confirmation email. Based on receipt of this report, ALG will process the final payment for your award. ALG may follow up with additional questions or to request your participation in a publication, presentation, or other event.*

**Date: May 30, 2017**

**Grant Number: 231.c**

**Institution Name: Atlanta Metropolitan State College**

**Participant: Gyuheui Choi**

**Course Name(s) and Course Number(s): Elementary Statistics**

**Average Number of Students Per Course Section: 20**

**Number of Course Sections Affected by Implementation: two**

**Total Number of Students Affected by Implementation: 35**

1. **Narrative**

Concerns: Many have expressed concerns about the availability and quality of completely open mathematics homework solutions.

Outcomes: More students spend time for hands-on practice and spend hours at Academic enter for homework.

As an open resources instructor, my challenge was providing students with normed, it should not be too easy nor too hard for Elementary Statistics.

It took more time to manage the class hours which includes lecture, reading assignments and homework. It is rather a teaching and learning at the same time, it required more dialogue between instructor and students. Students’ collaboration was one of the best performance; some students starts with low performance but they have gradually caught up material by working with peers.

If I teach the same course as OER, I will select more youtube Videos from Khan Academy.

**2. Quotes**

a. “Professor Choi, I learned that self-study ( keeping my own pace) by working on WebAssign is very helpful.”

b. “ I worried of studying math without my own TEXTBOOK, but now I am able to study via e-materials.”

c. “ Thank you, you save my money, I don’t need to purchase TEXTBOOK, and I got good grade.”

**3. Quantitative and Qualitative Measures**

**3a. Overall Measurements**

**Student Opinion of Materials**

**Was the overall student opinion about the materials used in the course positive, neutral, or negative?**

Total number of students affected in this project: \_\_\_75 \_\_\_\_\_\_\_

* Positive: \_\_\_\_60\_\_\_ % of \_\_\_\_\_\_\_\_ number of respondents
* Neutral: \_\_\_ 30\_\_\_\_ % of \_\_\_\_\_\_\_\_ number of respondents
* Negative: \_\_\_10\_\_\_\_ % of \_\_\_\_\_\_\_\_ number of respondents

**Student Learning Outcomes and Grades**

**Was the overall comparative impact on student performance in terms of learning outcomes and grades in the semester(s) of implementation over previous semesters positive, neutral, or negative?**

*Student outcomes should be described in detail in Section 3b.*

Choose One:

* \_X\_\_ Positive: Higher performance outcomes measured over previous semester(s)
* \_\_\_ Neutral: Same performance outcomes over previous semester(s)
* \_\_\_ Negative: Lower performance outcomes over previous semester(s)

**Student Drop/Fail/Withdraw (DFW) Rates**

**Was the overall comparative impact on Drop/Fail/Withdraw (DFW) rates in the semester(s) of implementation over previous semesters positive, neutral, or negative?**

**Drop/Fail/Withdraw Rate:**

\_\_15\_\_\_\_\_% of students, out of a total \_\_75\_\_\_\_\_ students affected, dropped/failed/withdrew from the course in the final semester of implementation.

Choose One:

* \_\_\_ Positive: This is a lower percentage of students with D/F/W than previous semester(s)
* \_X\_\_ Neutral: This is the same percentage of students with D/F/W than previous semester(s)
* \_\_\_ Negative: This is a higher percentage of students with D/F/W than previous semester(s)

**3b. Narrative**

* *In this section, summarize the supporting impact data that you are submitting, including all quantitative and qualitative measures of impact on student success and experience. Include all measures as described in your proposal, along with any measures developed after the proposal submission.*
* *Include measures such as:*
  + *Drop, fail, withdraw (DFW) delta rates*
  + *Course retention and completion rates*
  + *Average GPA*
  + *Pre-and post-transformation DFW comparison*
  + *Student success in learning objectives*
  + *Surveys, interviews, and other qualitative measures*
* *Indicate any co-factors that might have influenced the outcomes for better or worse.*
* *When submitting your final report, as noted above, you will also need to provide the separate file of supporting data on the impact of your Textbook Transformation (surveys, analyzed data collected, etc.)*

**4. Sustainability Plan**

* *Describe how you will offer the materials in the course(s) in the future, including the maintenance and updating of new ancillary materials.*

The plan will be the same as usual: eTextbook, Web- Assign, Recommended Videos,and Lecture Note through Brightspace

**5. Future Plans**

My OER was face to face class. However, I will apply OER to online courses in the future.

OER is appropriate for online course since it can be self-directed by getting course materials through Brightspace and from other open resources as well.

* *Describe any planned or actual papers, presentations, publications, or other professional activities that you expect to produce that reflect your work on this project.*

I am working on eCore course development. OER course is a good model for eCore course design.