

# Affordable Learning Georgia Textbook Transformation Grants

## Final Report for Mini-Grants

### General Information

Date: August 13, 2020

Grant Round: 15

Grant Number: M100

Institution Name(s): Fort Valley State University

Team Members (Name, Title, Department, Institutions if different, and email address for each):

Patcharin T. Marion; Associate Professor; tragoonsirisakp@fvsu.edu

Ishwari Kunwar; Assistant Professor; kunwari@fvsu.edu

Project Lead: Patcharin Tragoonsirisak Marion

Course Name(s) and Course Numbers: MATH 2164 (Calculus II)

Final Semester of Project: Summer 2020

#### ***If applicable to your project:***

Average Number of Students Per Course Section: 18 students per section (Fall 2020)

Number of Course Sections Affected by Implementation of Revised Resources: 1 (Fall 2020)

Total Number of Students Affected by Implementation of Revised Resources: 18 /semester

### 1. Project Narrative

*Describe the course of your revision or ancillary creation project, including*

- *A summary of your project's purpose, plan, and timeline.*
- *The original works which were revised or added to, with links. For example, if you revised an open textbook, give the title, author, and link.*
- *A narrative description of how the project's plan was carried out.*
- *Lessons learned, including anything you would do differently next time.*

In 2016, the PIs (including Dr. Patcharin T. Marion) were funded with an ALG Textbook Transformation Grant, and they developed the no-cost-to-student learning materials for Calculus for Business and Economics, Calculus I, Calculus II and Differential Equations. When

we started using the no-cost materials, students were very happy and relieved because they could save about \$300 for the textbook and MyMathLab(MML).

Dr. Marion, the Calculus coordinator of our department at Fort Valley State University, and Dr. Kunwar would like to improve the course materials for Calculus II. More types of questions (other than the multiple-choice questions) were created. More problems were added in the test bank.

In Spring 2020, we determined which current problems needed editing, and areas where more problems were needed. In Summer 2020, we created, edited and uploaded the problems in the D2L. The quizzes are now ready to be used in Fall 2020.

There are four units in the course. Dr. Marion is responsible for revising, editing, and adding the questions in the Unit 1 and Unit 2. Dr. Kunwar is responsible for revising, editing, and adding the questions in the Unit 3 and Unit 4.

## 2. Materials Description

*Describe all the materials you have created or revised as part of this project. These descriptions may be used in the [GALILEO Open Learning Materials](#) repository in the official description field.*

The OpenStax textbook was adopted (<https://openstax.org/details/books/calculus-volume-2>), and the homework assignments (called quizzes in the course) were created in the D2L (<https://fvsu.view.usg.edu/d2l/login>) for the Calculus II.

## 3. Materials Links

*If you are hosting your materials in places other than GALILEO Open Learning Materials, please provide these links in this section. Otherwise, leave blank.*

[https://drive.google.com/file/d/1n\\_mhDPILv2fvNTc3KZtfvgictTSZyidu/view?usp=sharing](https://drive.google.com/file/d/1n_mhDPILv2fvNTc3KZtfvgictTSZyidu/view?usp=sharing)

## 4. Future Plans

- *Describe any planned or actual papers, presentations, publications, or other professional activities that you expect to produce that reflect your work on this project.*
- *Describe any plans to revise or add to these materials in the future.*

The comparison how students doing with this material and other material will be analyzed. We plan to publish the outcome in the future when appropriate.