**Affordable Learning Georgia Affordable Materials Grants  
Continuous Improvement Grants Final Report**

*(or Mini-Grants, for R17 and earlier)*

# General Information

Date: **5/1/2025**

Grant Round: **Round 24**

Grant Number: **M257**

Institution Name(s): **ABAC**

Team Members:

**April Abbott, Senior Lecturer, ABAC, aabbott@abac.edu**

**Jan Gregus, Associate Professor, ABAC, jgregus@abac.edu**

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**Hope Toole, Associate Professor, ABAC, hope.toole@abac.edu**

**Carson Anderson, Lecturer carson.anderson@abac.edu**

Project Lead: **April Abbott**

Course Name(s) and Course Numbers: Quantitative Reasoning, MATH 1001

Final Semester of Project: Spring 2025

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

Average Number of Students Per Course Section: **30**

Number of Course Sections Affected by Implementation of Revised Resources: **15**

Total Number of Students Affected by Implementation of Revised Resources: **450**

# 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.*

**The overall goal of this grant was to provide Quantitative Reasonings students, who already use a free workbook, with even more savings by creating a free online homework in GeorgiaVIEW (D2L). We accomplished this by working the entire summer of 2024 to create questions from every chapter with 5 to 10 versions each to randomly generate homework for the student. We did review every other MATH 1001 grant and their materials created. We found do to different notations (set theory, logic, probability) it would be longer to translate their work to ours then just creating new questions ourselves.**

**The homework was implemented in the fall and has been a huge success. Students have access to their homework on day 1. We didn’t have to worry about going to another website, having the students create accounts, or connecting to courses. It was already in their D2L.**

**We revised the workbook we created in a previous grant to remove questions added from the old online software Knewton and made general quality of life improvements.**

**(** [**https://alg.manifoldapp.org/projects/quantitative-reasoning-workbook**](https://alg.manifoldapp.org/projects/quantitative-reasoning-workbook) **)**

**Lessons learned was just how much we learned about D2L while making all the questions, quiz pools, and quizzes. I wish people did a greater demonstrations of what all the quizzes could implement while at the same time I wish they would update them to allow even more complex math problems. Currently you can randomly generate any number of variables for a problem, but only if the problem has exactly one solution. It can’t be used to create quadratics or anything.**

**We also learned about images. How it is critical to have the physical image in GeorgiaView instead of a link. We had a series of histogram photos we found from an open resource that we linked to our questions. The open resource site went offline and all our images were gone. We had to create some from scratch to replace them very last minute.**

# Materials Description

*Describe all the materials you have created or revised as part of this project. These descriptions may be used in the* [OpenALG](https://alg.manifoldapp.org/) *repository description field. Include the* [*open license your materials will be shared under*](https://creativecommons.org/share-your-work/)*—for most materials, this will be an Attribution 4.0 License (CC BY) as required in the Grants Request for Proposals.*

**We updated the workbook created in a previous grant to match the online homework materials we created.**

**MATH 1001 Workbook Version 3:** *Attribution 4.0 License (CC BY)*

**MATH 1001 Online homework:** *Attribution 4.0 License (CC BY)*

# Materials Links

*If you are hosting your materials in places other than OpenALG, please provide these links in this section. Otherwise, leave blank. Note: we cannot access D2L or Canvas links.*

# 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.*

**As of right now we have no planned papers or presentations, but that is not to say we won’t in the future. Our current activity to reflect on this work is that we hope to make all mathematics at ABAC no to low cost with emphasis on no cost. We currently have a grant to change College Algebra to No Cost and have started the research for another grant to change Trigonometry and Math for Elementary School Teachers to no cost classes.**